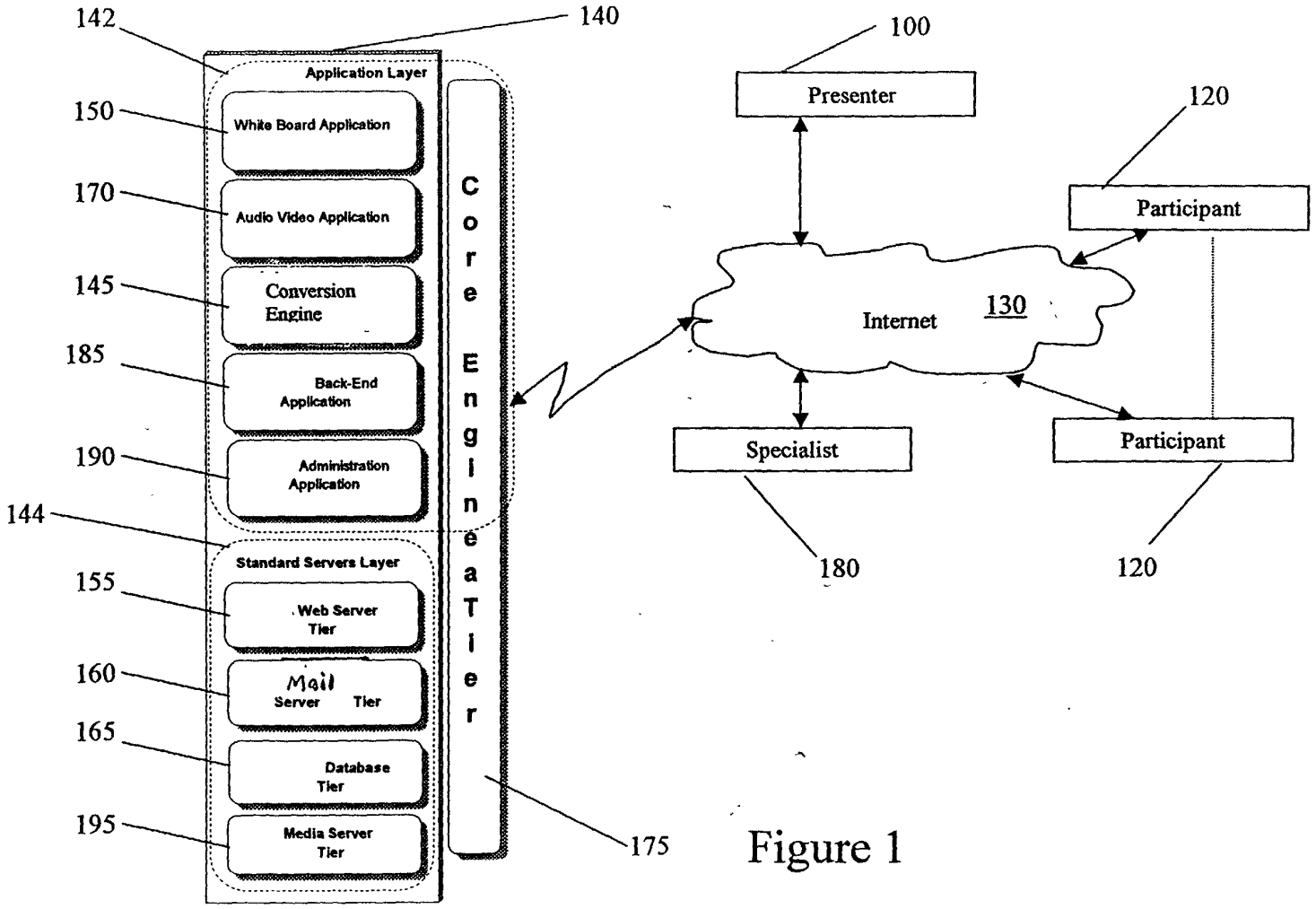
142
140
100
Application Layer
150
White Board Application
170
Audio Video Application
145
Conversion Engine
185
Back-End Application
190
Administration Application
144
Standard Servers Layer
155
Web Server Tier
160
Mail Server Tier
165
Database Tier
195
Media Server Tier
Core Engine Tier
175
Presenter
120
Participant
Internet
130
Specialist
Participant
180
120

Figure 1

20020704.0244.0660

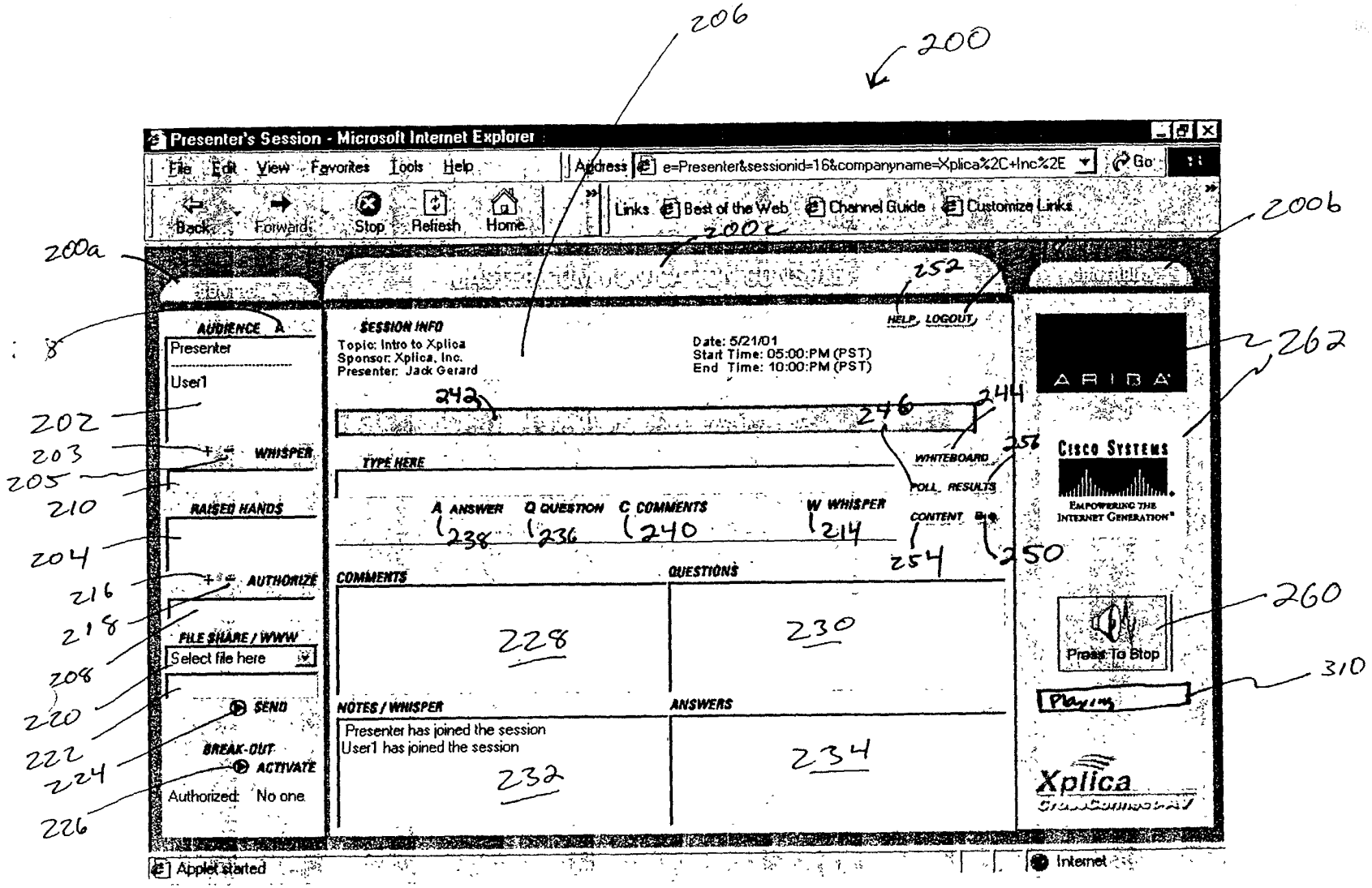

Fig 2

20020104244660

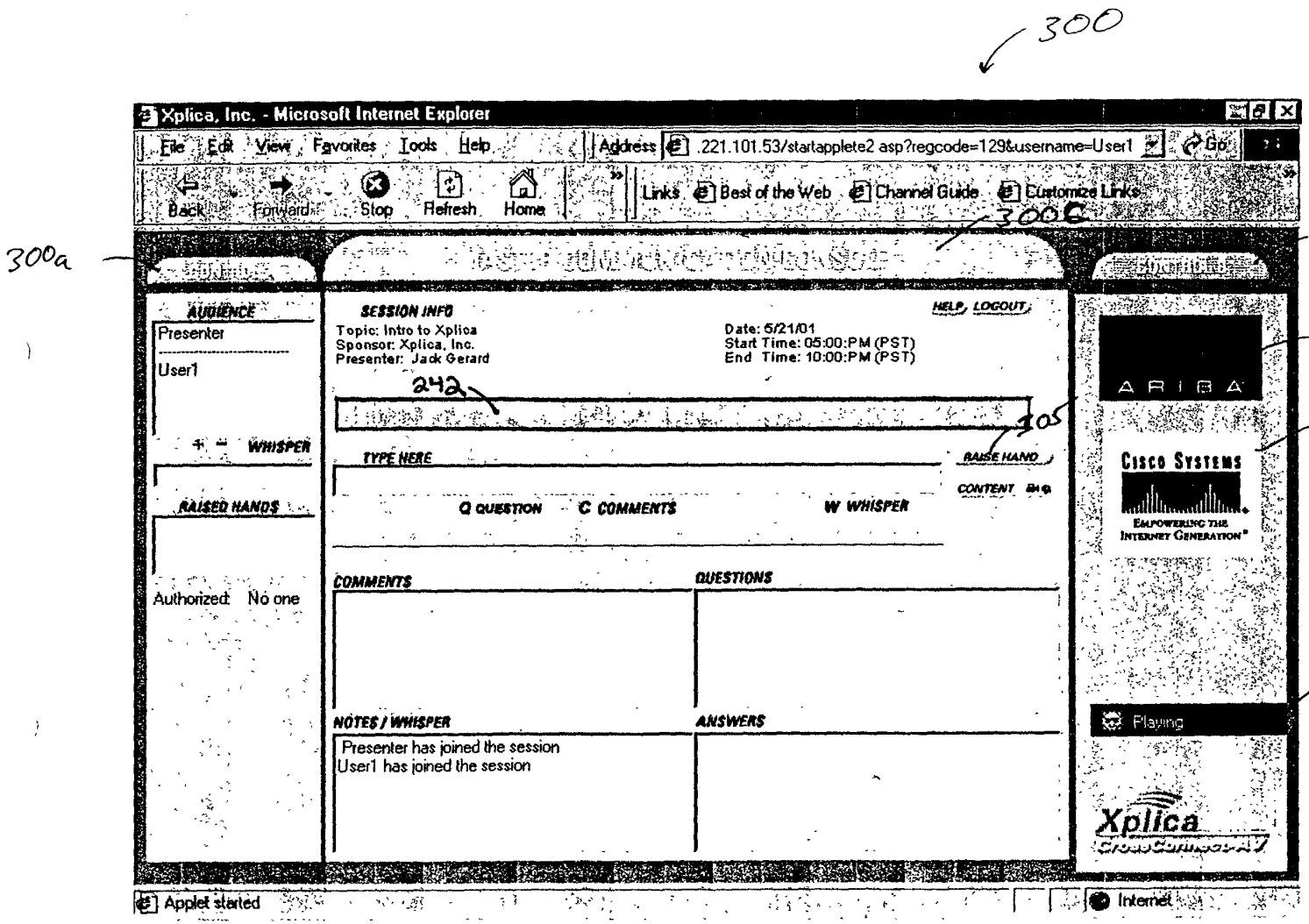

Fig 3

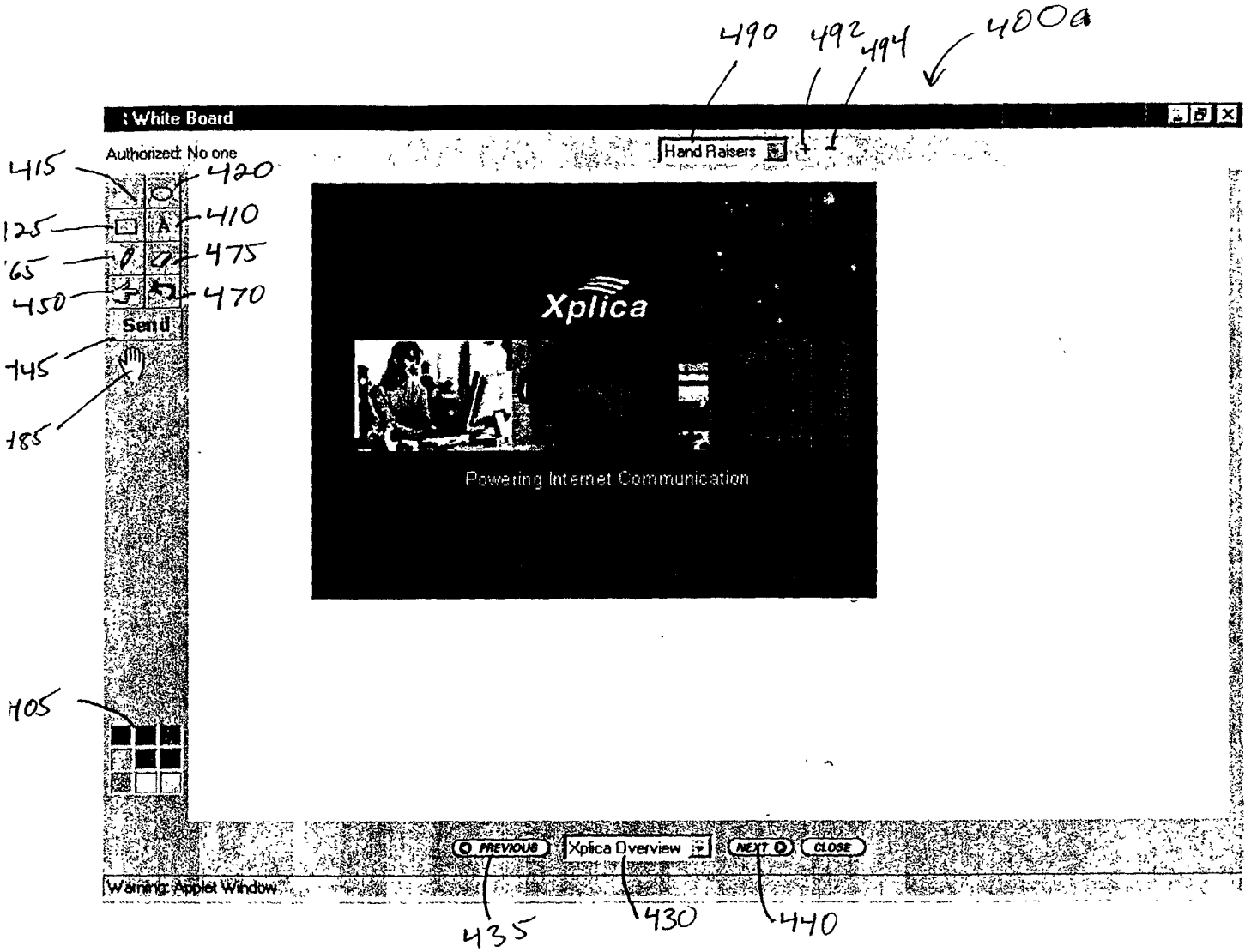
490
492
494
400a
White Board
Authorized: No one
Hand Raisers
415
420
125
410
65
475
450
470
Send
745
785
405
Xplica
Powering Internet Communication
PREVIOUS
Xplica Overview
NEXT
CLOSE
Warning: Applet Window
435
430
440

Fig 4a

20030704041660

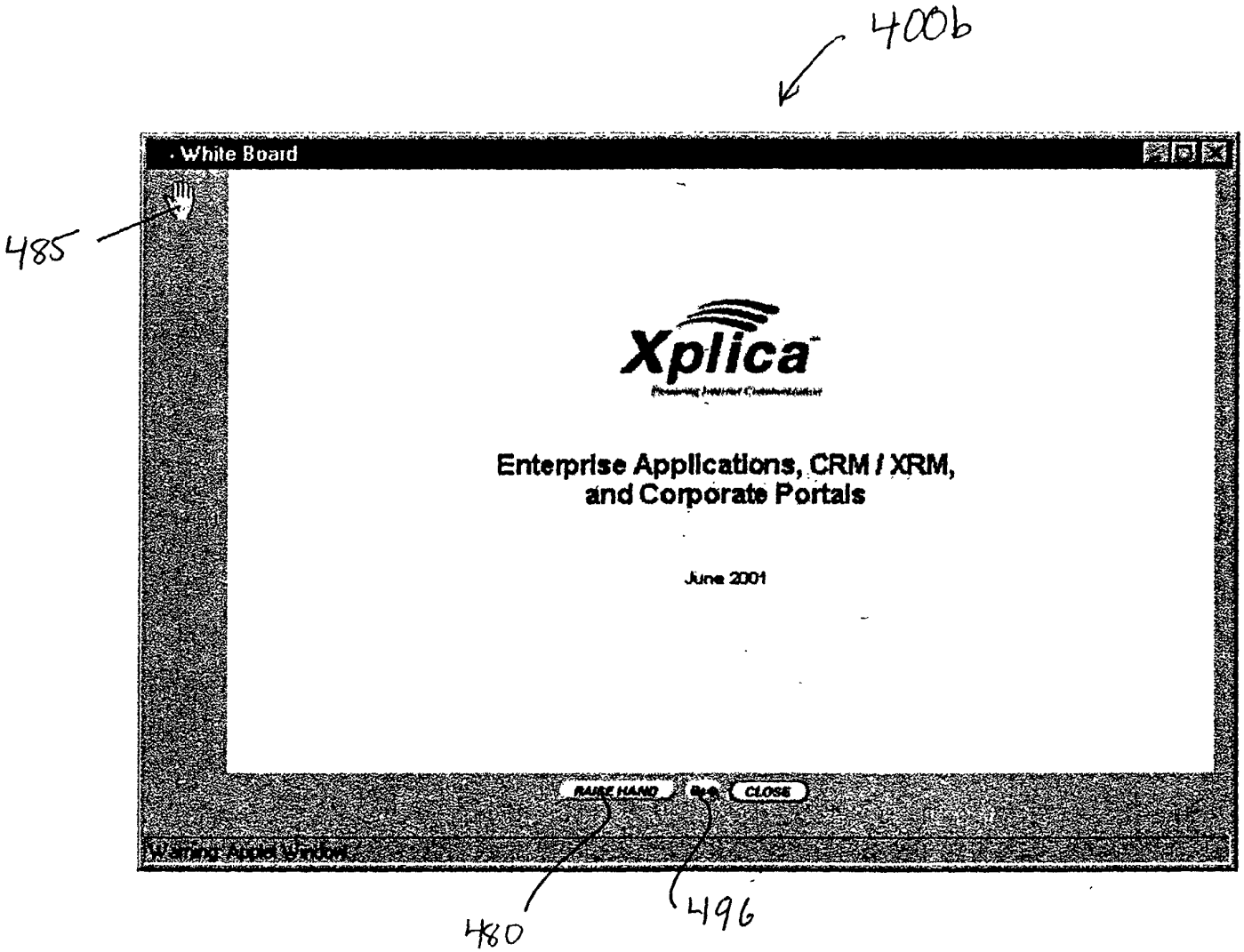

Figure 4b

Docket No. 10559-1010 - 10/25/2000 12:55:02 PM

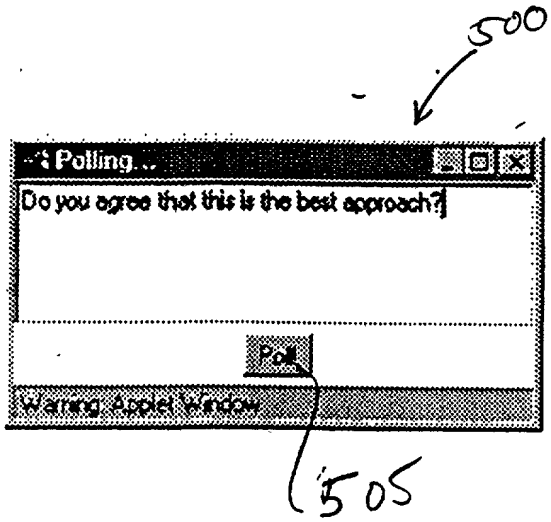

Figure 5a

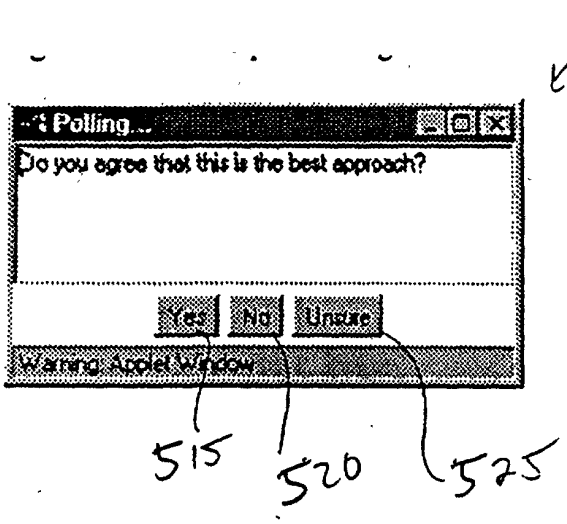
510
Polling...
Do you agree that this is the best approach?
Yes
No
Unsure
Warning: Applet Window
515
520
525

Figure 5b

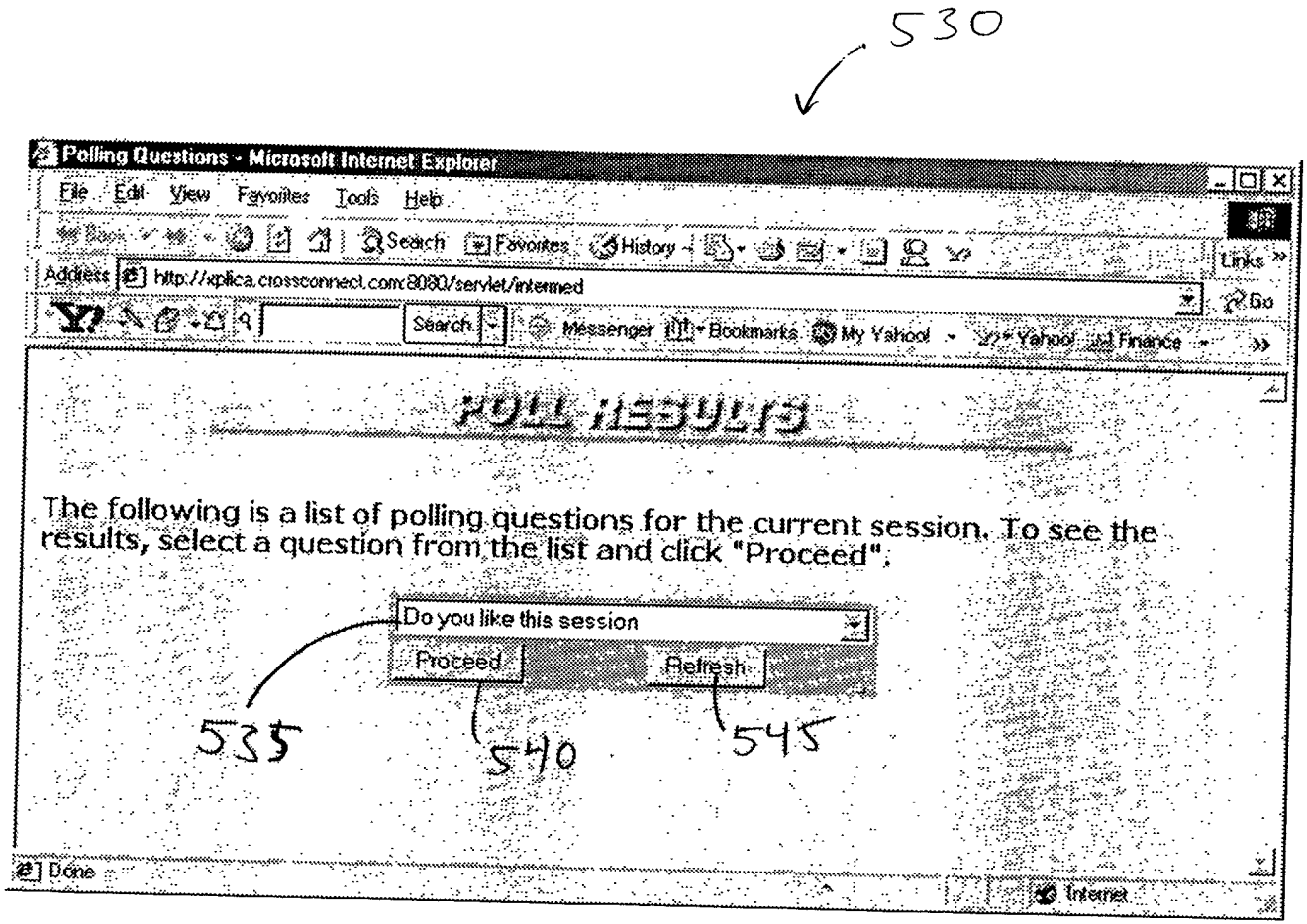
530
Polling Questions - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://xplica.crossconnect.com:8080/servlet/intermed
POLL RESULTS
The following is a list of polling questions for the current session. To see the results, select a question from the list and click "Proceed".
Do you like this session
Proceed
Refresh
535
540
545
Done
Internet

Figure 5c

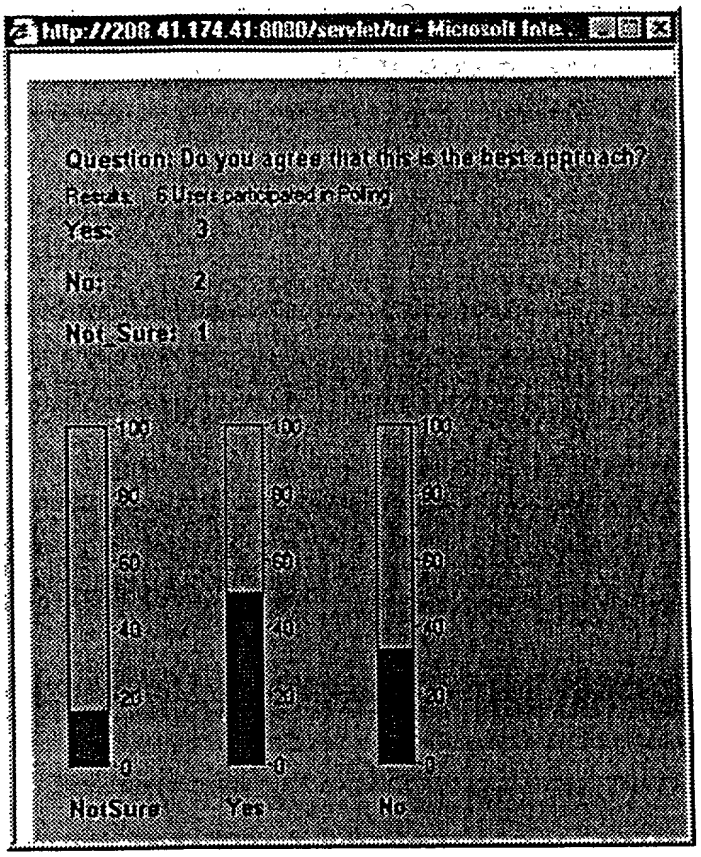
http://208.41.174.41:8080/servlet/tn - Microsoft Inte...
Question: Do you agree that this is the best approach?
Results: 6 Users participated in Polling
Yes: 3
No: 2
Not_Sure: 1
100
80
60
40
20
0
NotSure
Yes
No

Fig. 5d

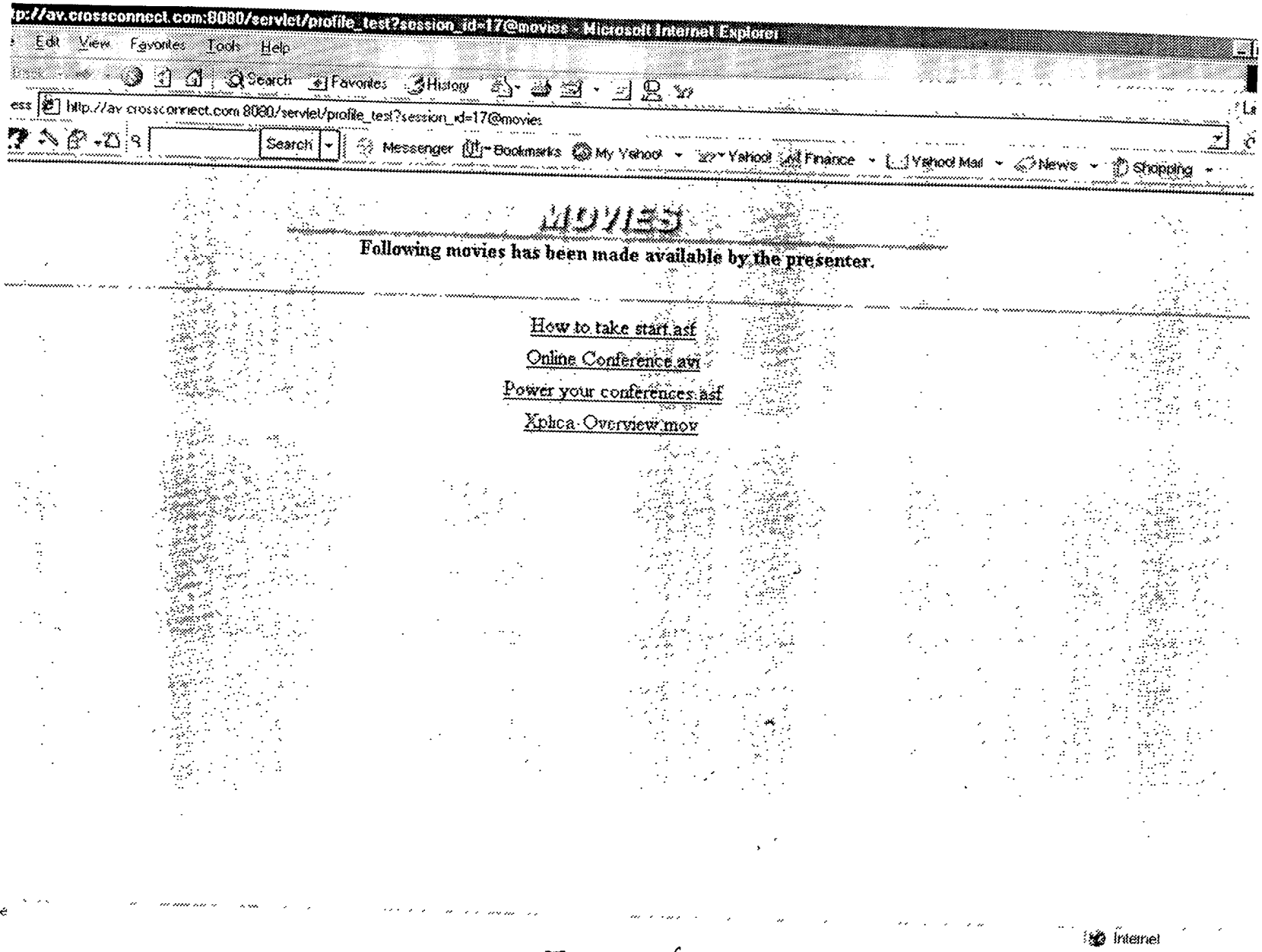
p://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies - Microsoft Internet Explorer
Edit View Favorites Tools Help
Search Favorites History
http://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies
Search
Messenger Bookmarks My Yahoo! Yahoo! Finance Yahoo! Mail News Shopping
MOVIES
Following movies has been made available by the presenter.
How to take start.asf
Online Conference.avi
Power your conferences.asf
Xplica-Overview.mov
Internet

Figure 6

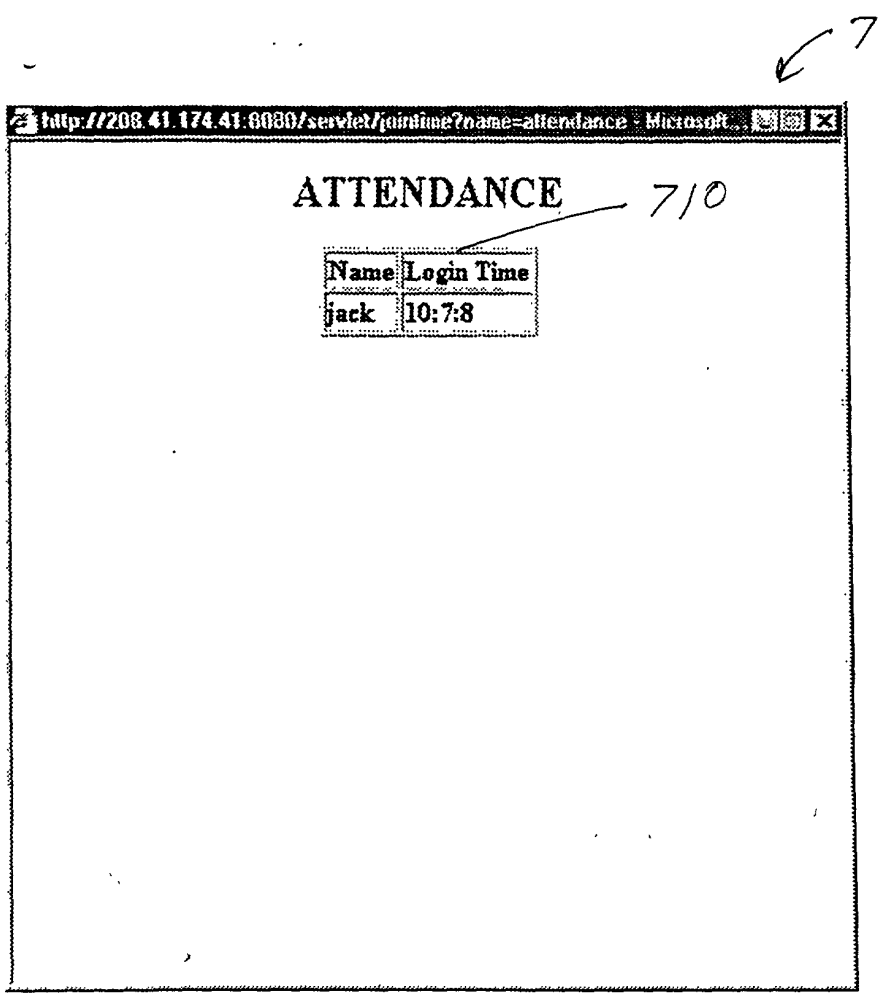
700
http://208.41.174.41:8080/servlet/jointime?name=attendance - Microsoft
ATTENDANCE
710
Name
Login Time
jack
10:7:8

Fig. 7

Homepage

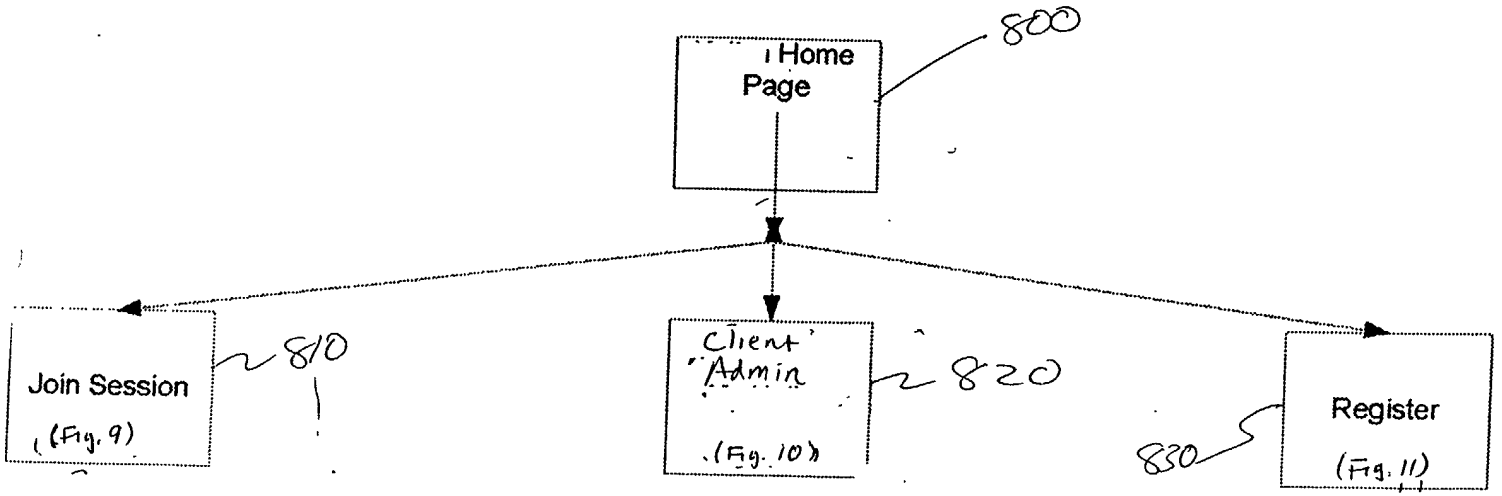

Fig. 8

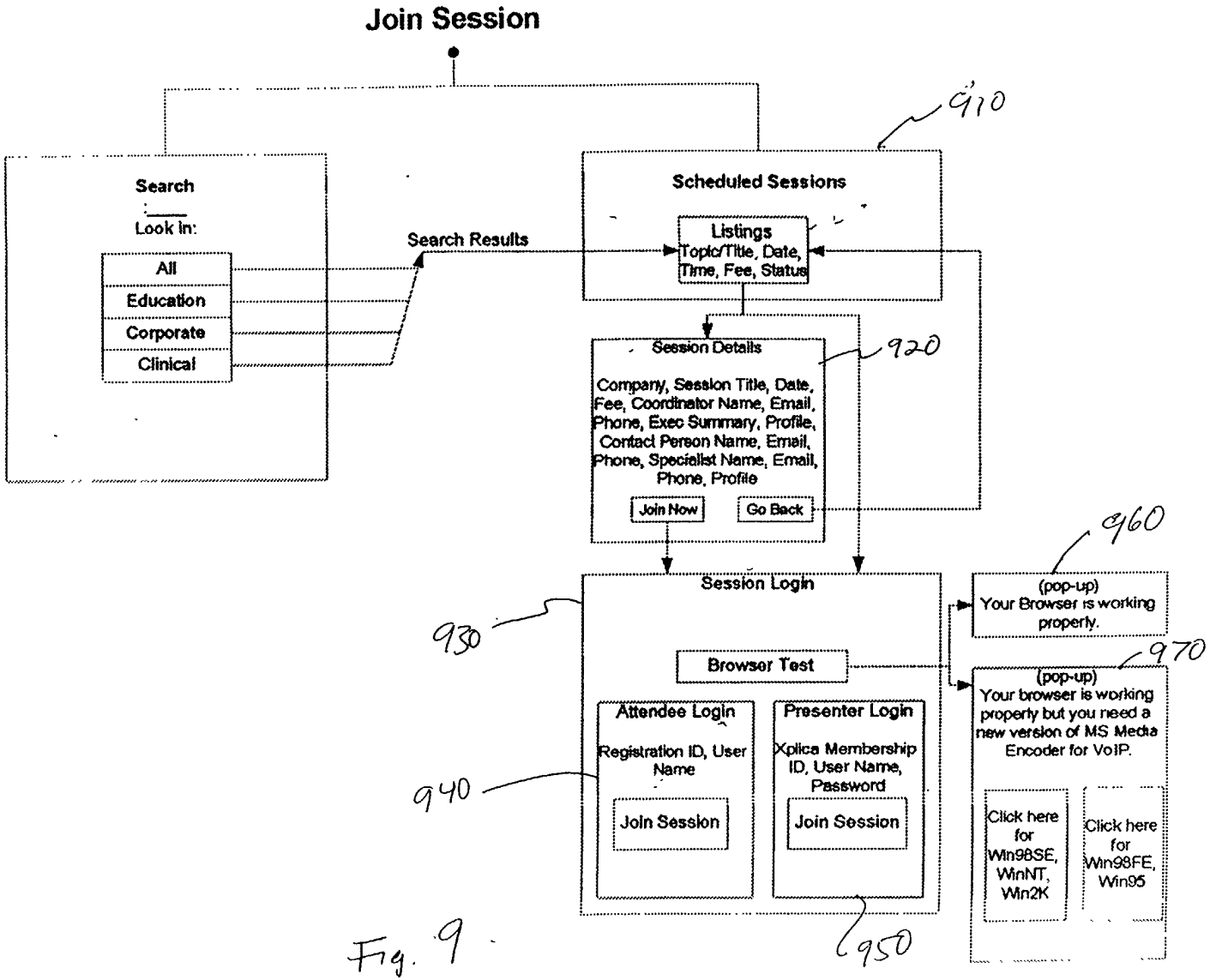
Join Session
910
Search
Look in:
All
Education
Corporate
Clinical
Search Results
Scheduled Sessions
Listings
Topic/Title, Date, Time, Fee, Status
Session Details
920
Company, Session Title, Date, Fee, Coordinator Name, Email, Phone, Exec Summary, Profile, Contact Person Name, Email, Phone, Specialist Name, Email, Phone, Profile
Join Now
Go Back
960
(pop-up)
Your Browser is working properly.
930
Session Login
Browser Test
970
(pop-up)
Your browser is working properly but you need a new version of MS Media Encoder for VoIP.
Attendee Login
Registration ID, User Name
940
Join Session
Presenter Login
Xplica Membership ID, User Name, Password
Join Session
Click here for Win98SE, WinNT, Win2K
Click here for Win98FE, Win95
950

Fig. 9

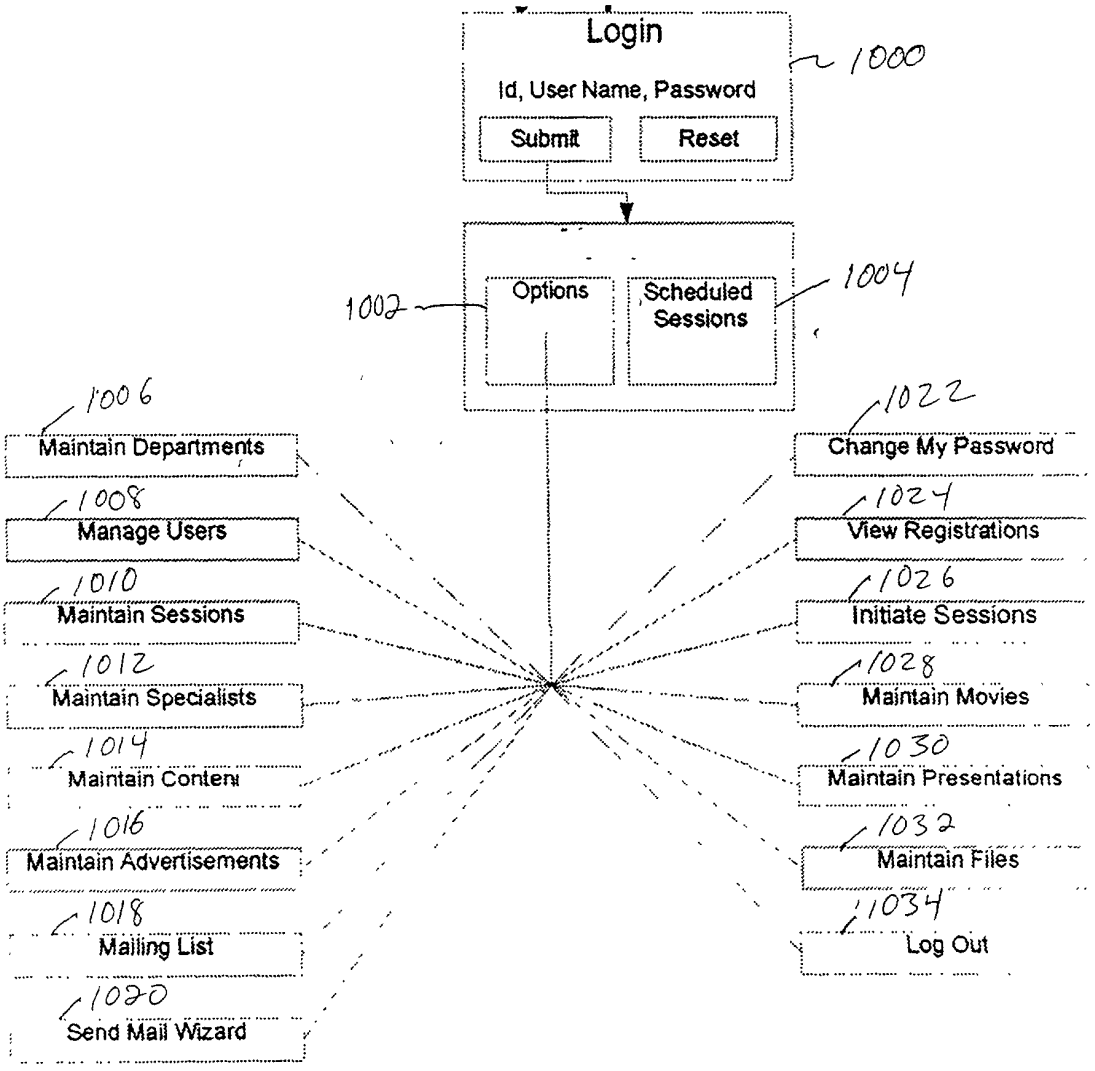
Login
Id, User Name, Password
Submit
Reset
1000
Options
Scheduled Sessions
1002
1004
Maintain Departments
1006
Manage Users
1008
Maintain Sessions
1010
Maintain Specialists
1012
Maintain Content
1014
Maintain Advertisements
1016
Mailing List
1018
Send Mail Wizard
1020
Change My Password
1022
View Registrations
1024
Initiate Sessions
1026
Maintain Movies
1028
Maintain Presentations
1030
Maintain Files
1032
Log Out
1034

Fig. 10a

20020703-1926466

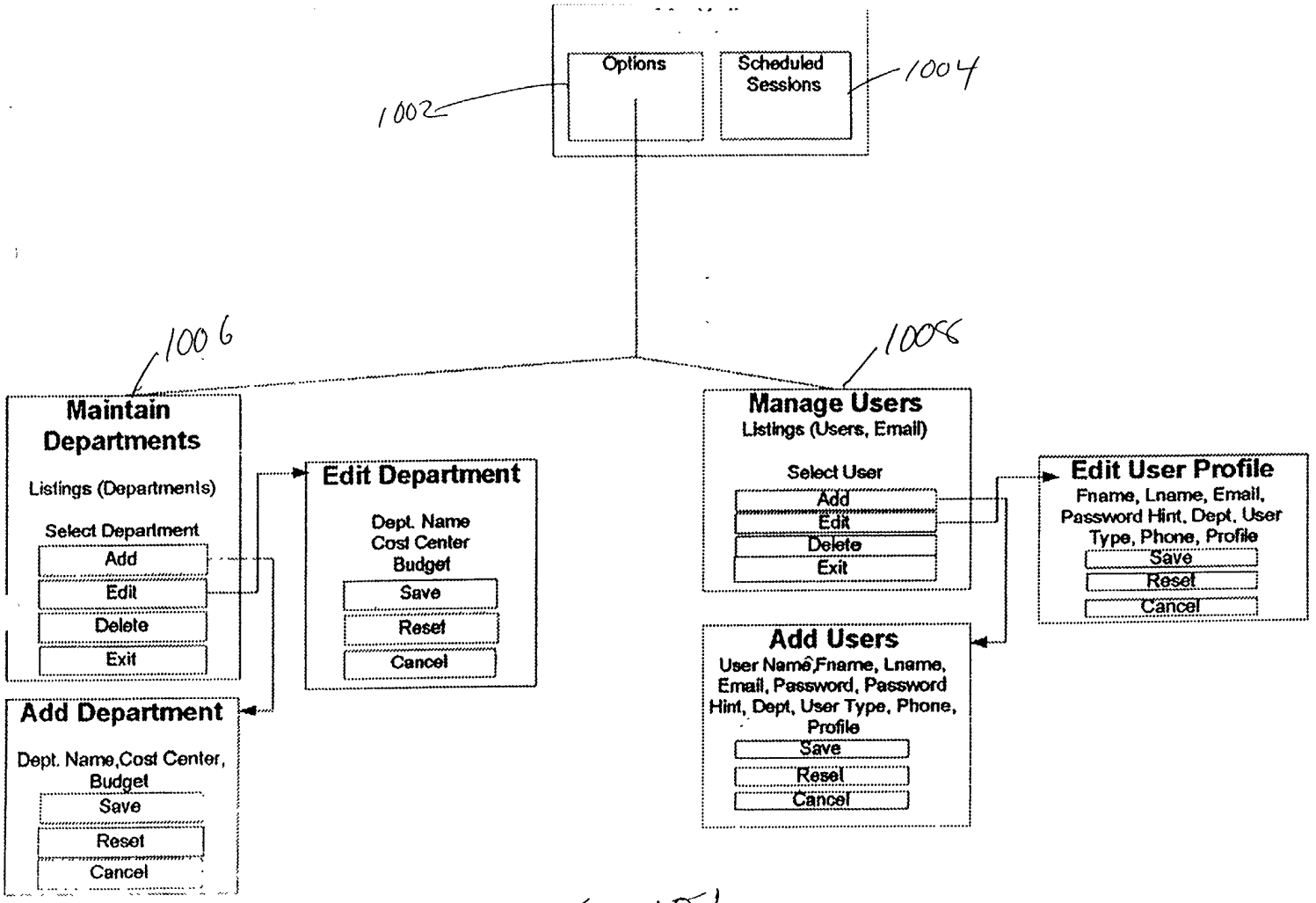

Fig. 10b

SUBSTITUTE SHEET (RULE 26)

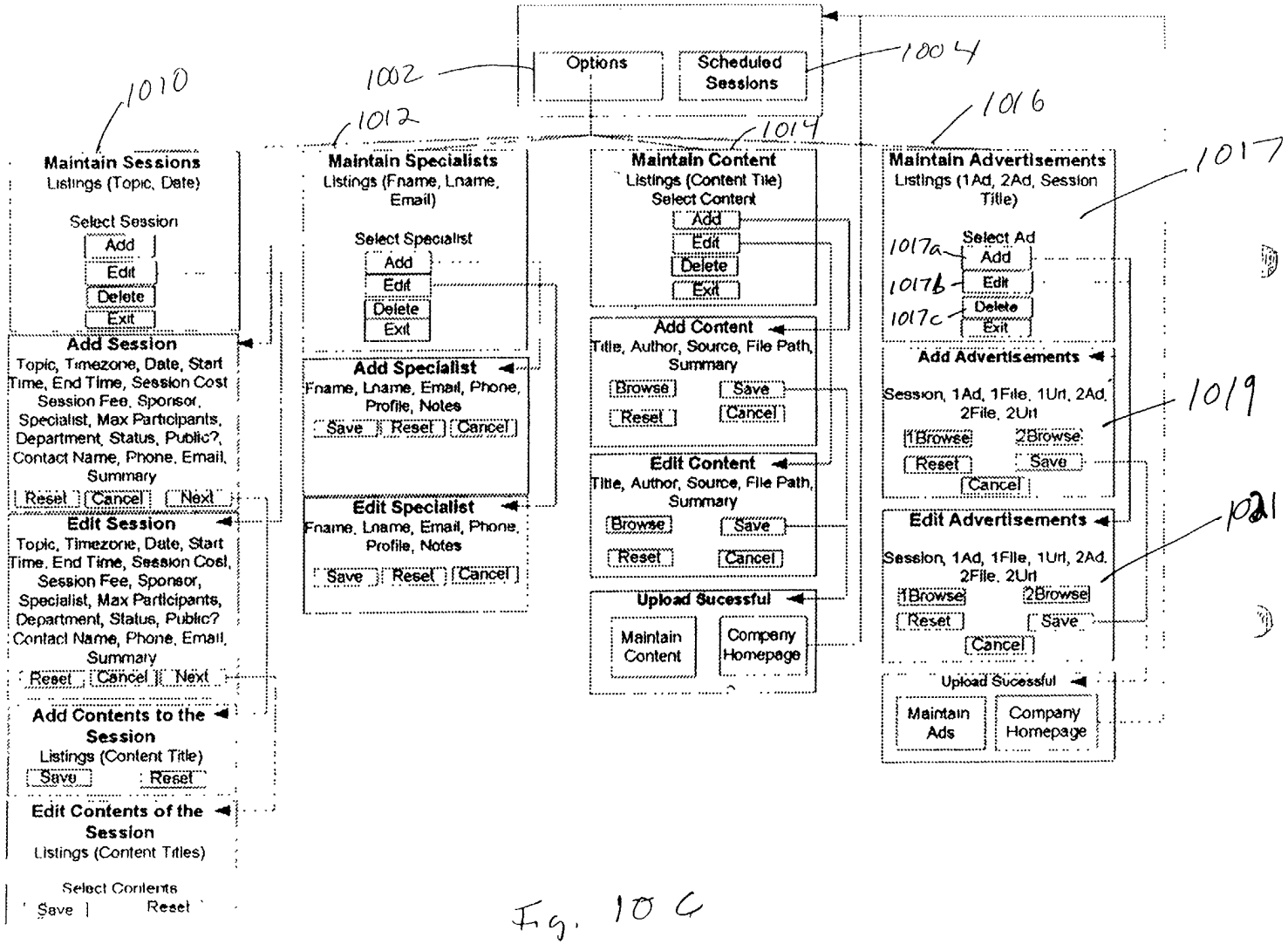

Fig. 10C

20020194260

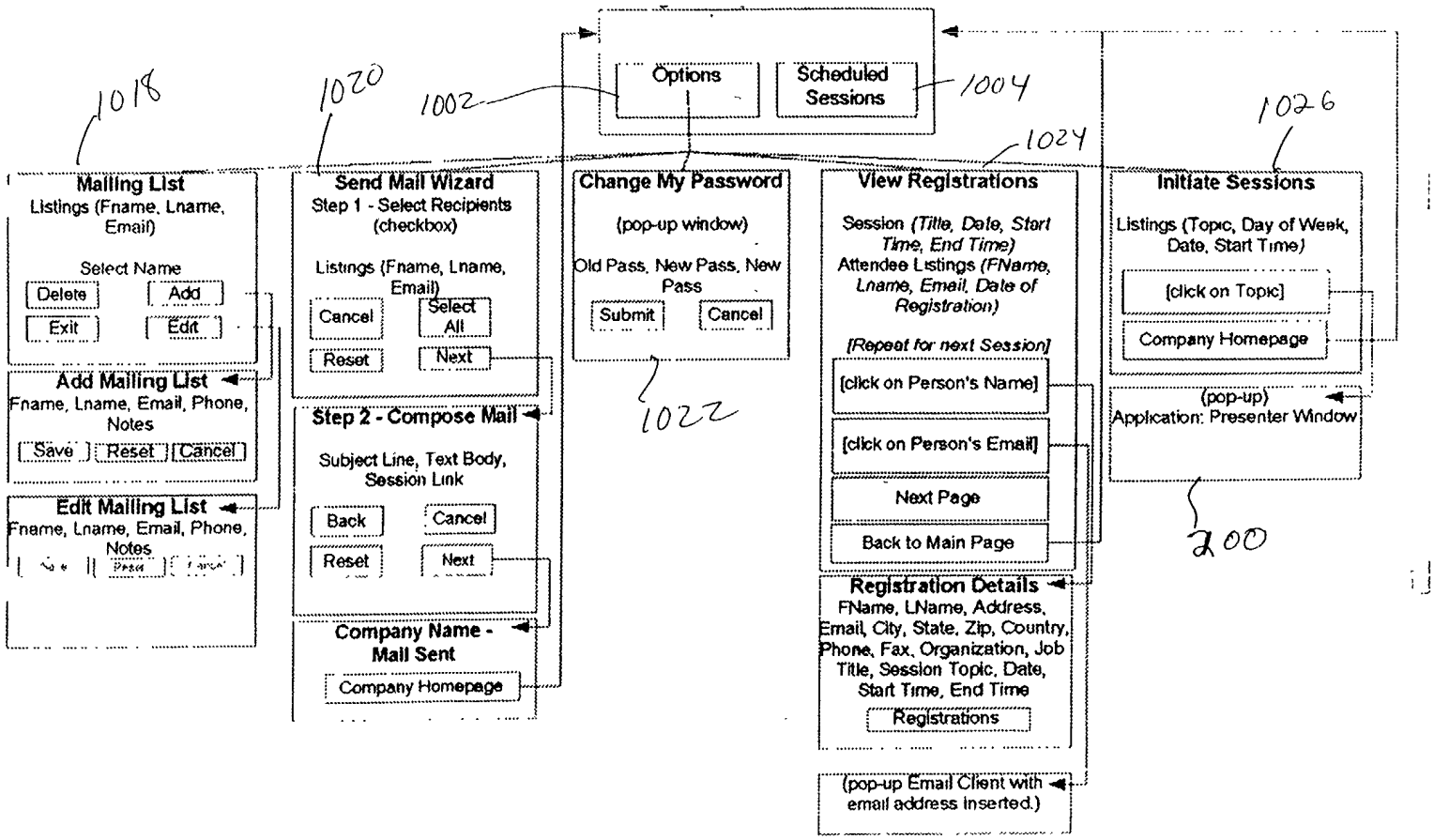

Fig. 10d

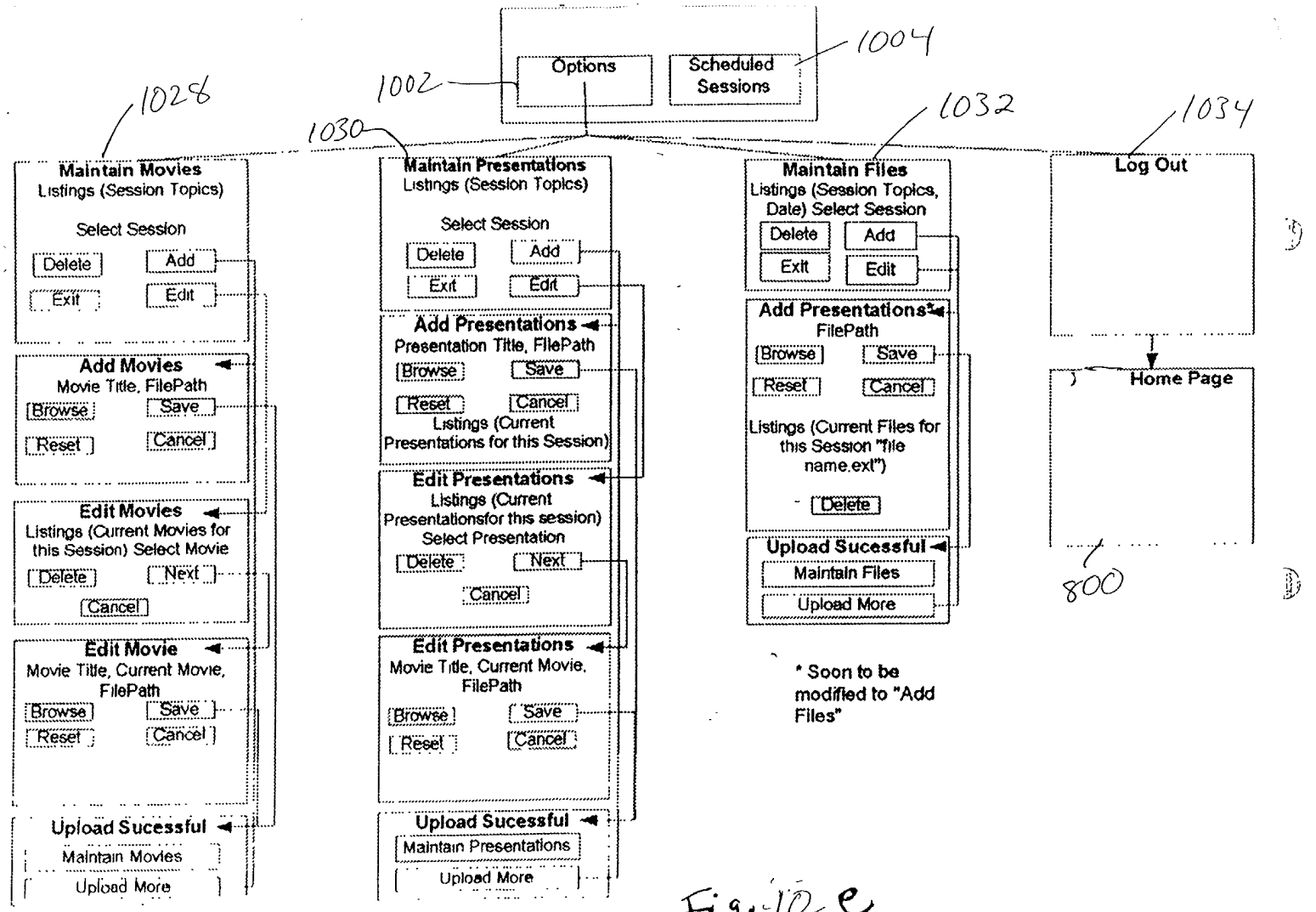
1004
Options
Scheduled Sessions
1002
1028
1030
1032
1034
Maintain Movies
Listings (Session Topics)
Select Session
Delete
Add
Exit
Edit
Add Movies
Movie Title, FilePath
Browse
Save
Reset
Cancel
Edit Movies
Listings (Current Movies for this Session) Select Movie
Delete
Next
Cancel
Edit Movie
Movie Title, Current Movie, FilePath
Browse
Save
Reset
Cancel
Upload Sucessful
Maintain Movies
Upload More
Maintain Presentations
Listings (Session Topics)
Select Session
Delete
Add
Exit
Edit
Add Presentations
Presentation Title, FilePath
Browse
Save
Reset
Cancel
Listings (Current Presentations for this Session)
Edit Presentations
Listings (Current Presentationsfor this session)
Select Presentation
Delete
Next
Cancel
Edit Presentations
Movie Title, Current Movie, FilePath
Browse
Save
Reset
Cancel
Upload Sucessful
Maintain Presentations
Upload More
Maintain Files
Listings (Session Topics, Date) Select Session
Delete
Add
Exit
Edit
Add Presentations*
FilePath
Browse
Save
Reset
Cancel
Listings (Current Files for this Session "file name.ext")
Delete
Upload Sucessful
Maintain Files
Upload More
* Soon to be modified to "Add Files"
Log Out
Home Page
800

Fig. 10e

20020-182660

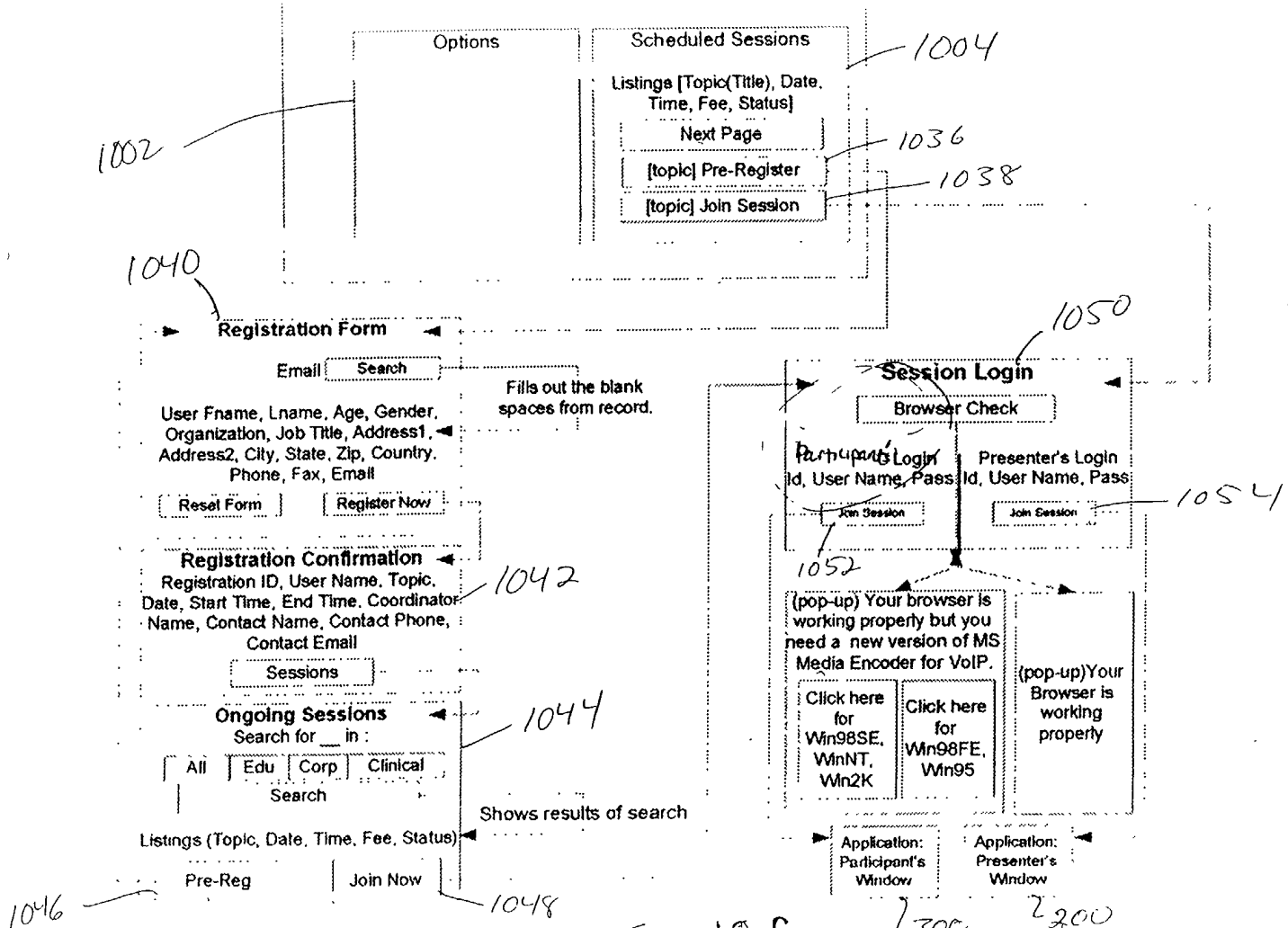

Fig. 10f

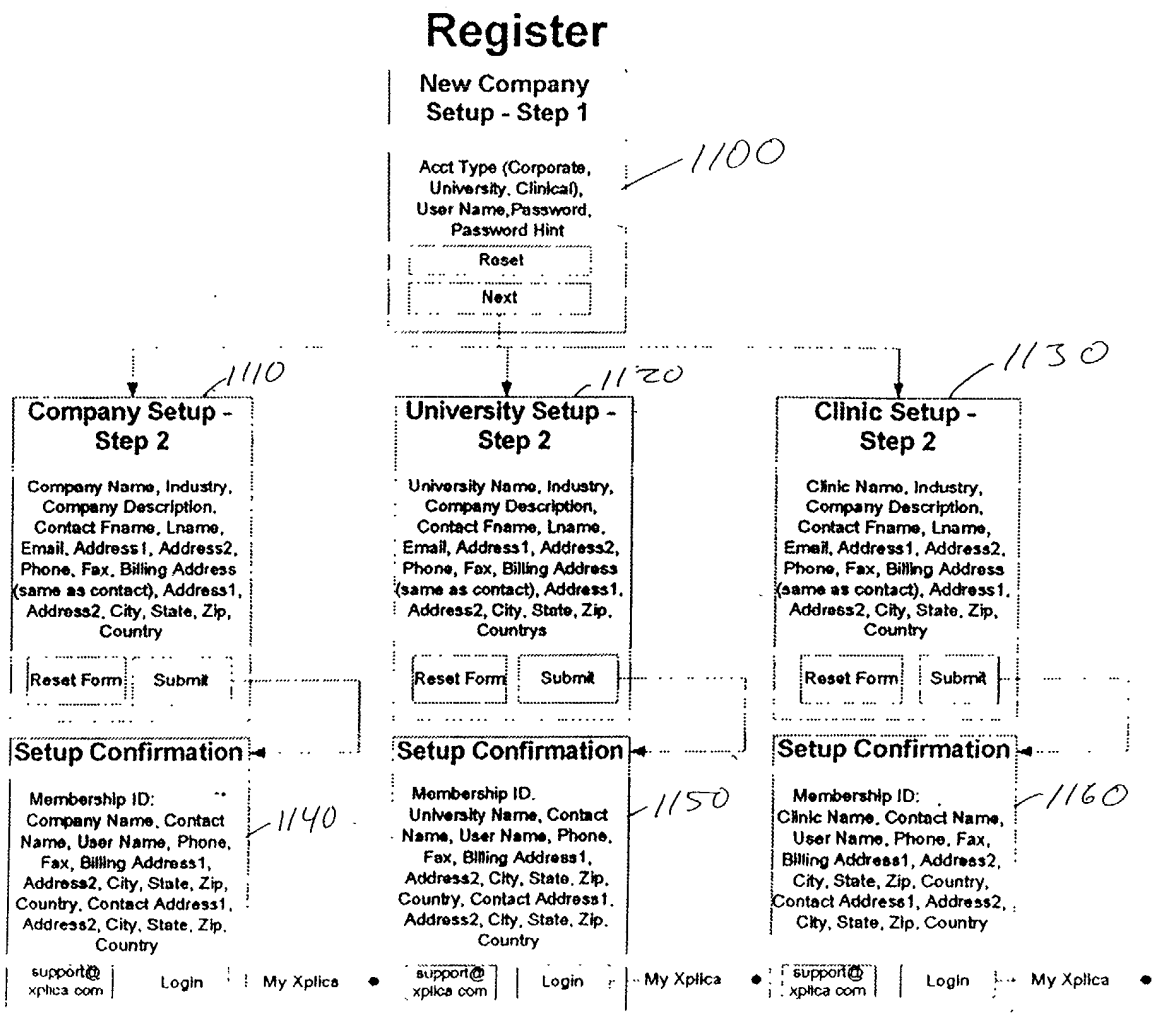
Register
New Company Setup - Step 1
Acct Type (Corporate, University, Clinical), User Name,Password, Password Hint
Reset
Next
1100
Company Setup - Step 2
Company Name, Industry, Company Description, Contact Fname, Lname, Email, Address1, Address2, Phone, Fax, Billing Address (same as contact), Address1, Address2, City, State, Zip, Country
Reset Form
Submit
1110
University Setup - Step 2
University Name, Industry, Company Description, Contact Fname, Lname, Email, Address1, Address2, Phone, Fax, Billing Address (same as contact), Address1, Address2, City, State, Zip, Countrys
Reset Form
Submit
1120
Clinic Setup - Step 2
Clinic Name, Industry, Company Description, Contact Fname, Lname, Email, Address1, Address2, Phone, Fax, Billing Address (same as contact), Address1, Address2, City, State, Zip, Country
Reset Form
Submit
1130
Setup Confirmation
Membership ID: Company Name, Contact Name, User Name, Phone, Fax, Billing Address1, Address2, City, State, Zip, Country, Contact Address1, Address2, City, State, Zip, Country
1140
Setup Confirmation
Membership ID: University Name, Contact Name, User Name, Phone, Fax, Billing Address1, Address2, City, State, Zip, Country, Contact Address1, Address2, City, State, Zip, Country
1150
Setup Confirmation
Membership ID: Clinic Name, Contact Name, User Name, Phone, Fax, Billing Address1, Address2, City, State, Zip, Country, Contact Address1, Address2, City, State, Zip, Country
1160
support@xplica.com
Login
My Xplica
support@xplica.com
Login
My Xplica
support@xplica.com
Login
My Xplica

Fig 11

SUBSTITUTE SHEET (RULE 26)

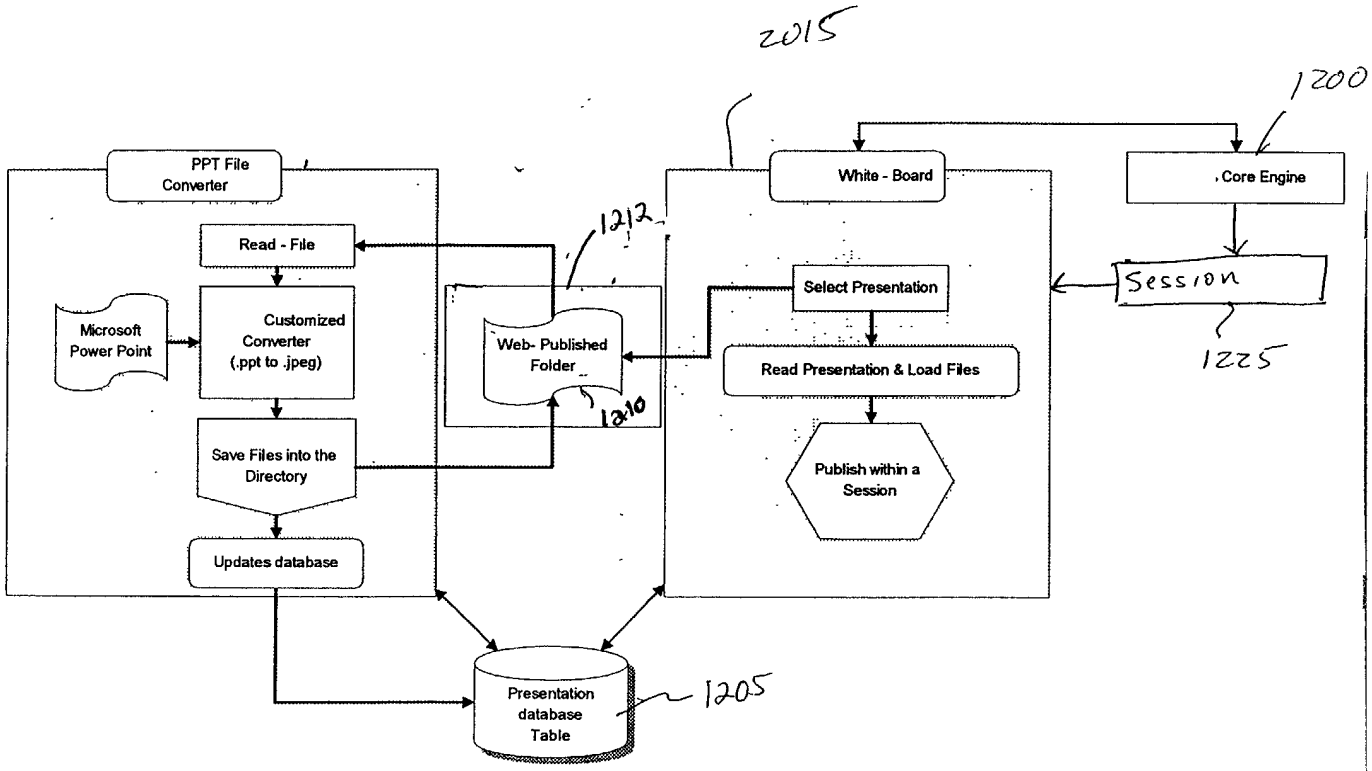

Figure 12

20020194260

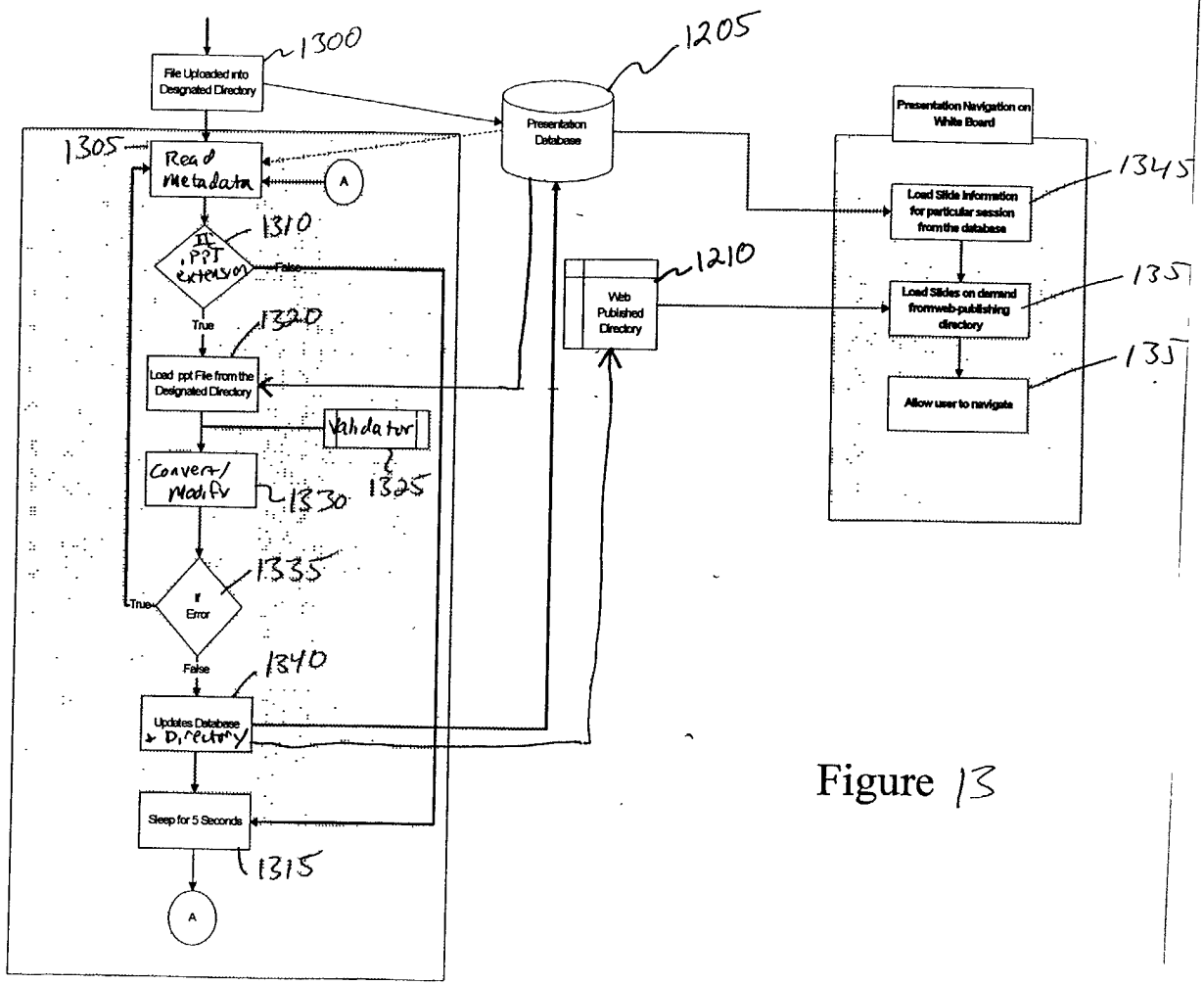

Figure 13

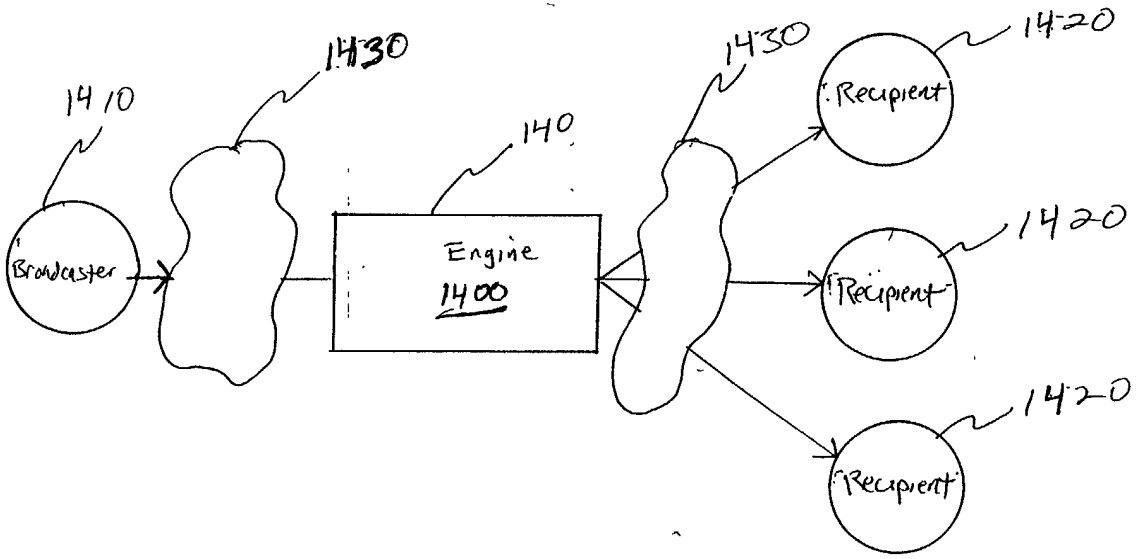
1410
1430
140
1430
1420
Recipient
Broadcaster
Engine
1400
1420
Recipient
1420
Recipient

Figure 14

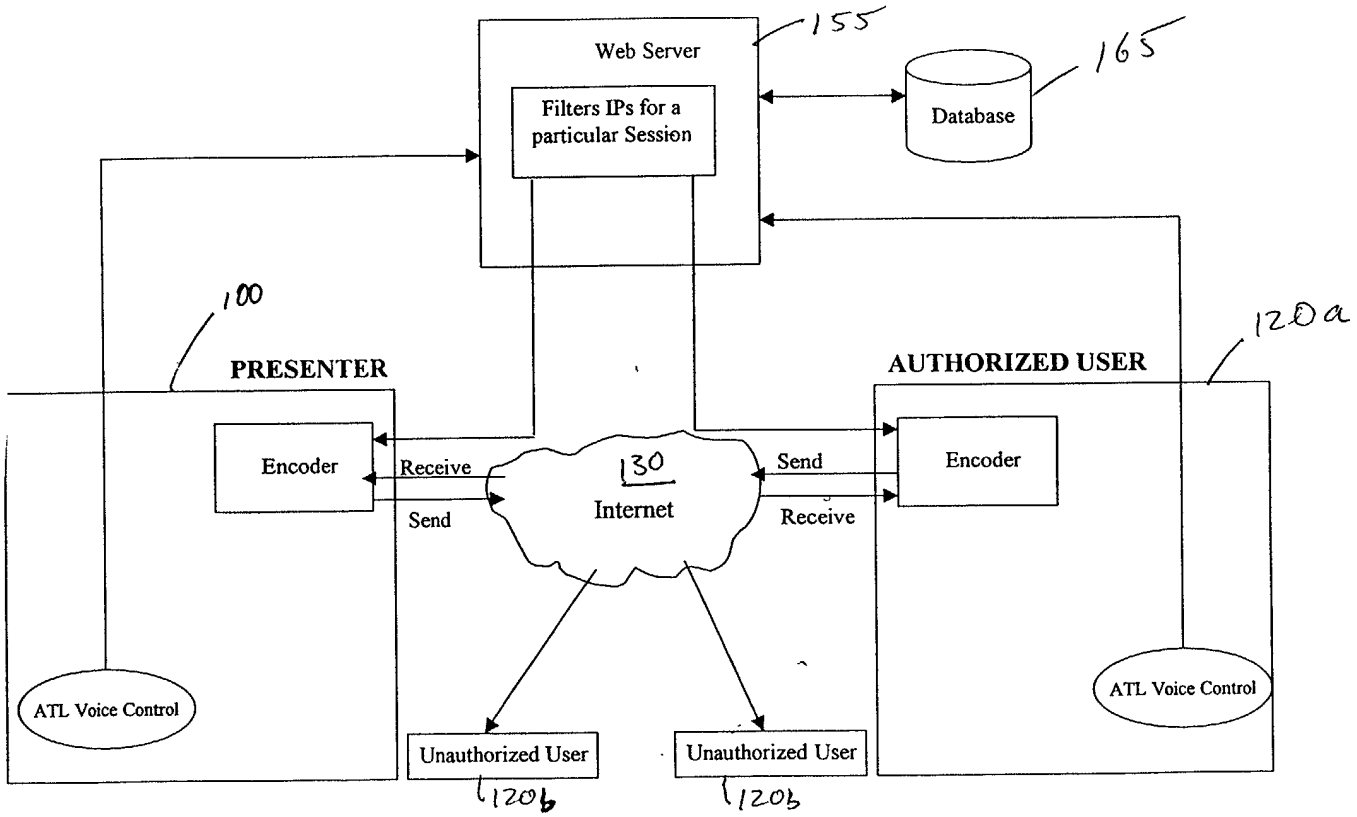
Web Server
155
Filters IPs for a particular Session
Database
165
100
PRESENTER
AUTHORIZED USER
120a
Encoder
Receive
Send
130
Internet
Send
Receive
Encoder
ATL Voice Control
ATL Voice Control
Unauthorized User
Unauthorized User
120b
120b

Figure 15

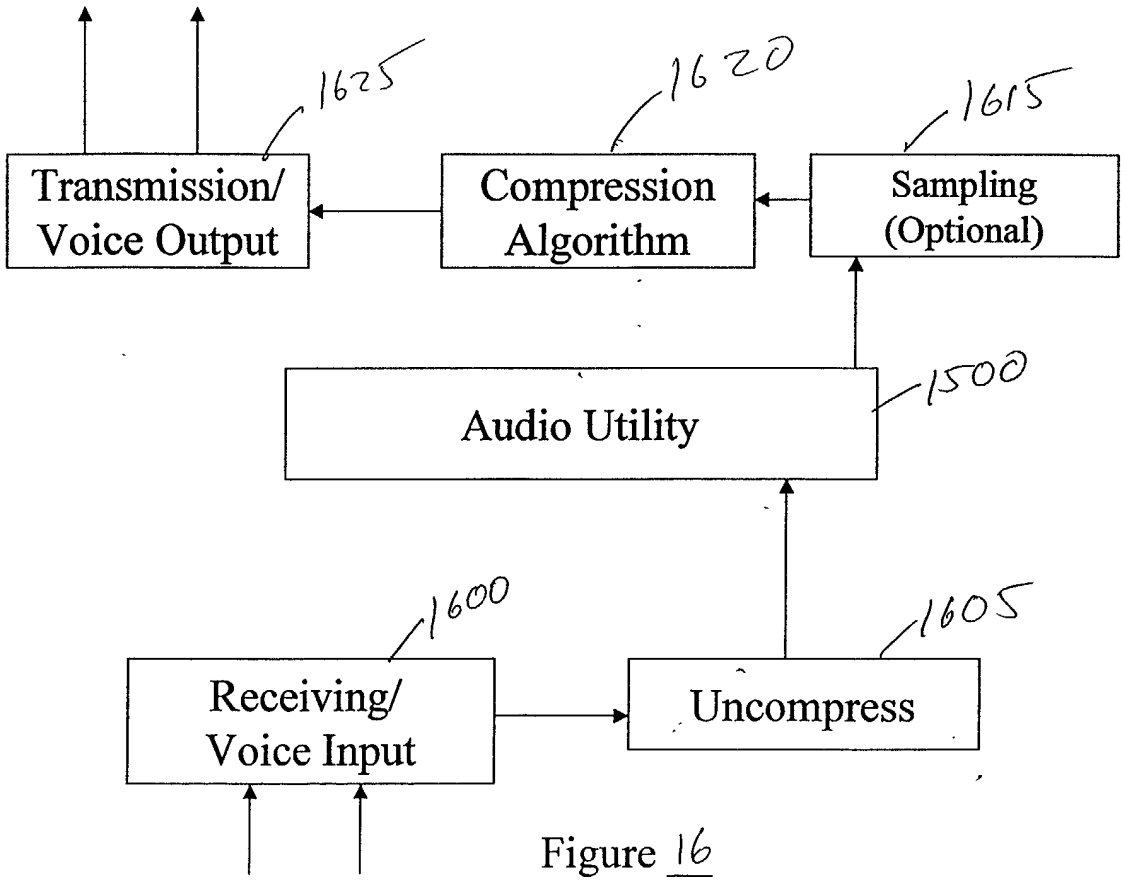
1625
1620
1615
Transmission/
Voice Output
Compression
Algorithm
Sampling
(Optional)
Audio Utility
1500
1600
1605
Receiving/
Voice Input
Uncompress

Figure 16

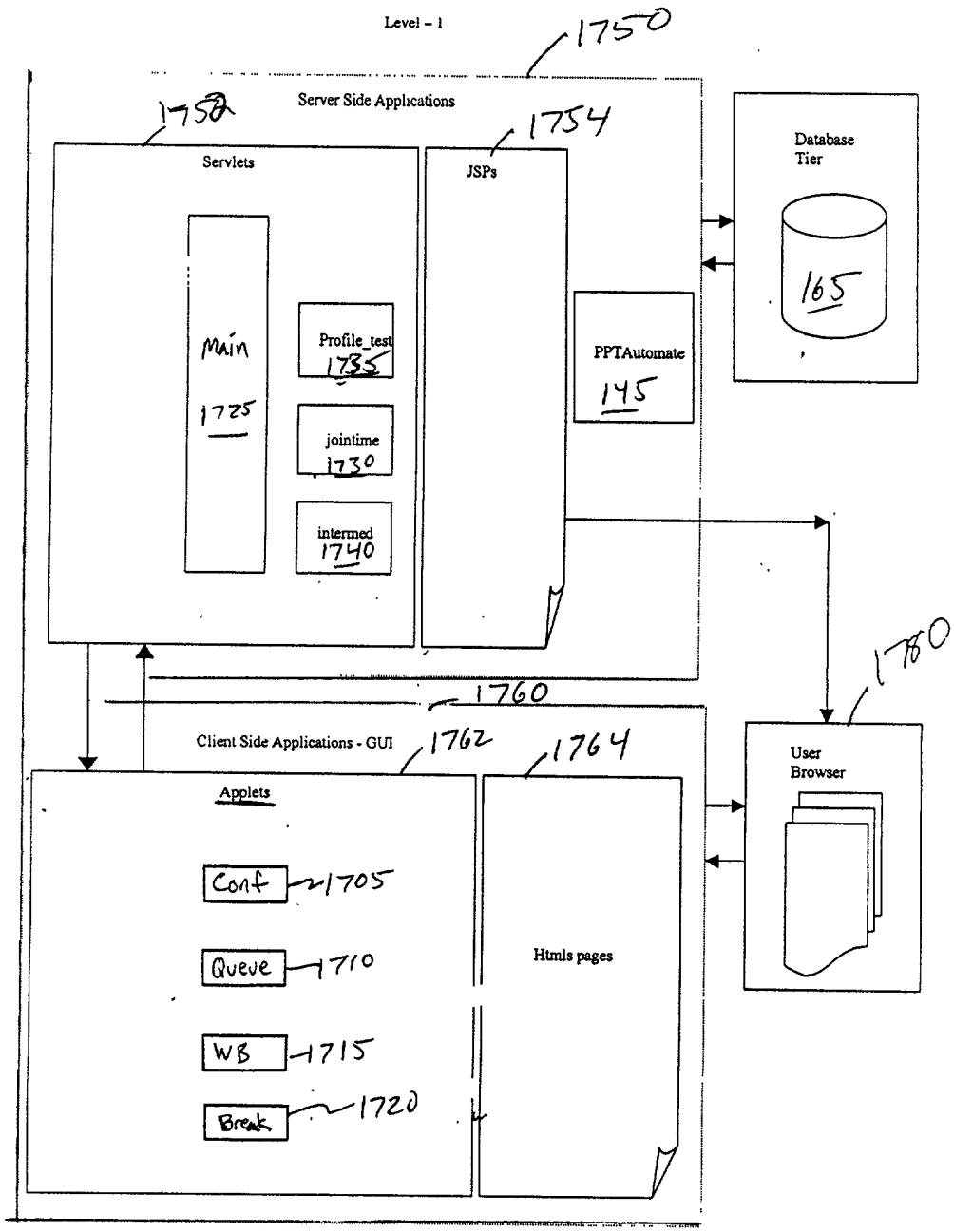
Level - 1
1750
Server Side Applications
1752
Servlets
1754
JSPs
Database Tier
165
Main
1725
Profile_test
1735
jointime
1730
intermed
1740
PPTAutomate
145
1760
1780
Client Side Applications - GUI
1762
1764
User Browser
Applets
Conf
1705
Queue
1710
WB
1715
Break
1720
Htmls pages

Figure 17a

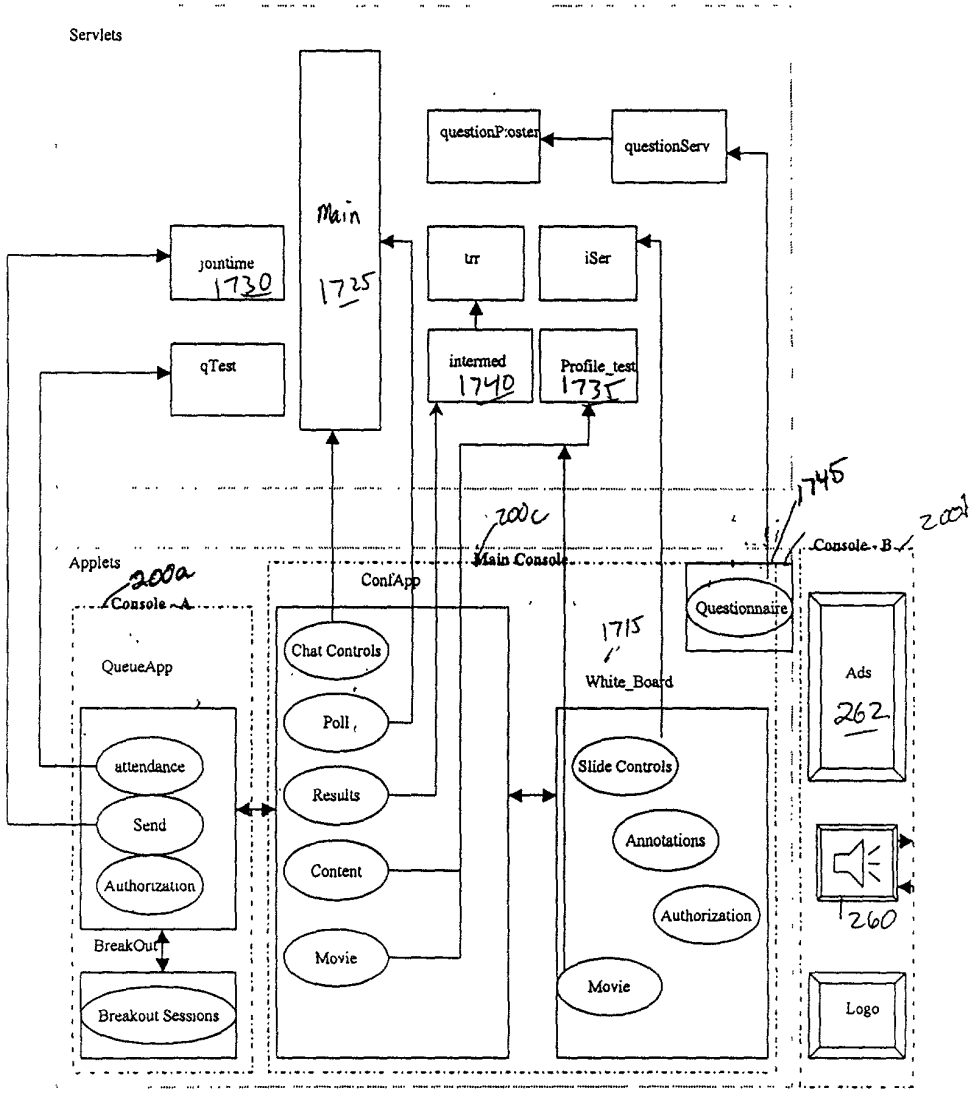
Servlets
questionPoster
questionServ
Main
1725
jointime
1730
trr
iSer
qTest
interMed
1740
Profile_test
1735
1745
200c
200b
Applets
200a
Console - A
Main Console
ConfApp
Console - B
Questionnaire
1715
White_Board
QueueApp
Chat Controls
Poll
Results
Content
Movie
attendance
Send
Authorization
BreakOut
Breakout Sessions
Slide Controls
Annotations
Authorization
Movie
Ads
262
260
Logo

Figure 17b

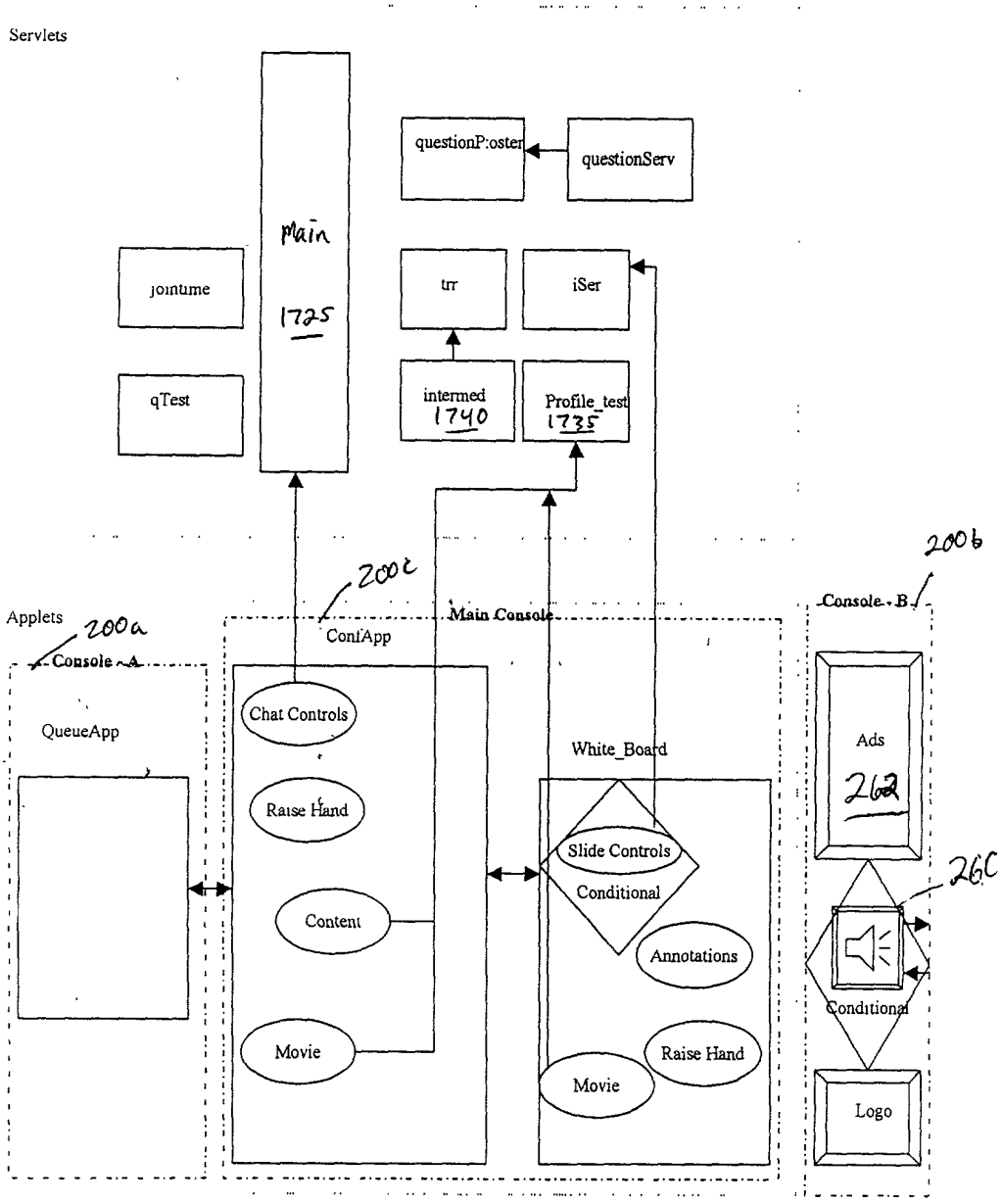
Servlets
main
1725
questionP:oster
questionServ
jointime
qTest
trr
iSer
intermed
1740
Profile_test
1735
200b
200c
Applets
200a
Console - A
Main Console
ConfApp
Console - B
QueueApp
Chat Controls
Raise Hand
Content
Movie
White_Board
Slide Controls
Conditional
Annotations
Raise Hand
Movie
Ads
262
26C
Conditional
Logo

Figure 17C

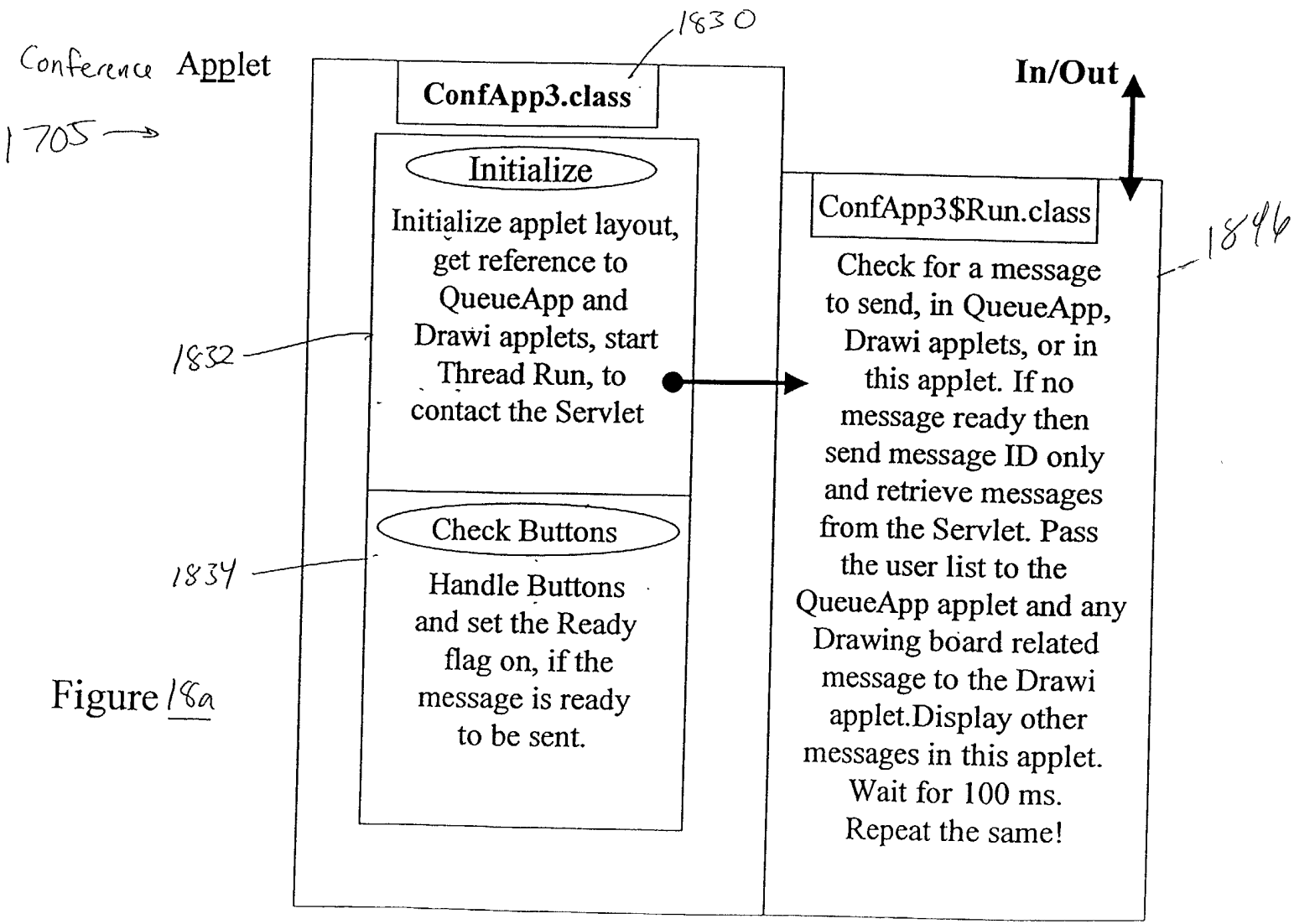
Conference Applet
1705
1830
ConfApp3.class
In/Out
Initialize
Initialize applet layout, get reference to QueueApp and Drawi applets, start Thread Run, to contact the Servlet
1832
Check Buttons
Handle Buttons and set the Ready flag on, if the message is ready to be sent.
1834
ConfApp3$Run.class
1846
Check for a message to send, in QueueApp, Drawi applets, or in this applet. If no message ready then send message ID only and retrieve messages from the Servlet. Pass the user list to the QueueApp applet and any Drawing board related message to the Drawi applet.Display other messages in this applet. Wait for 100 ms. Repeat the same!

Figure 18a

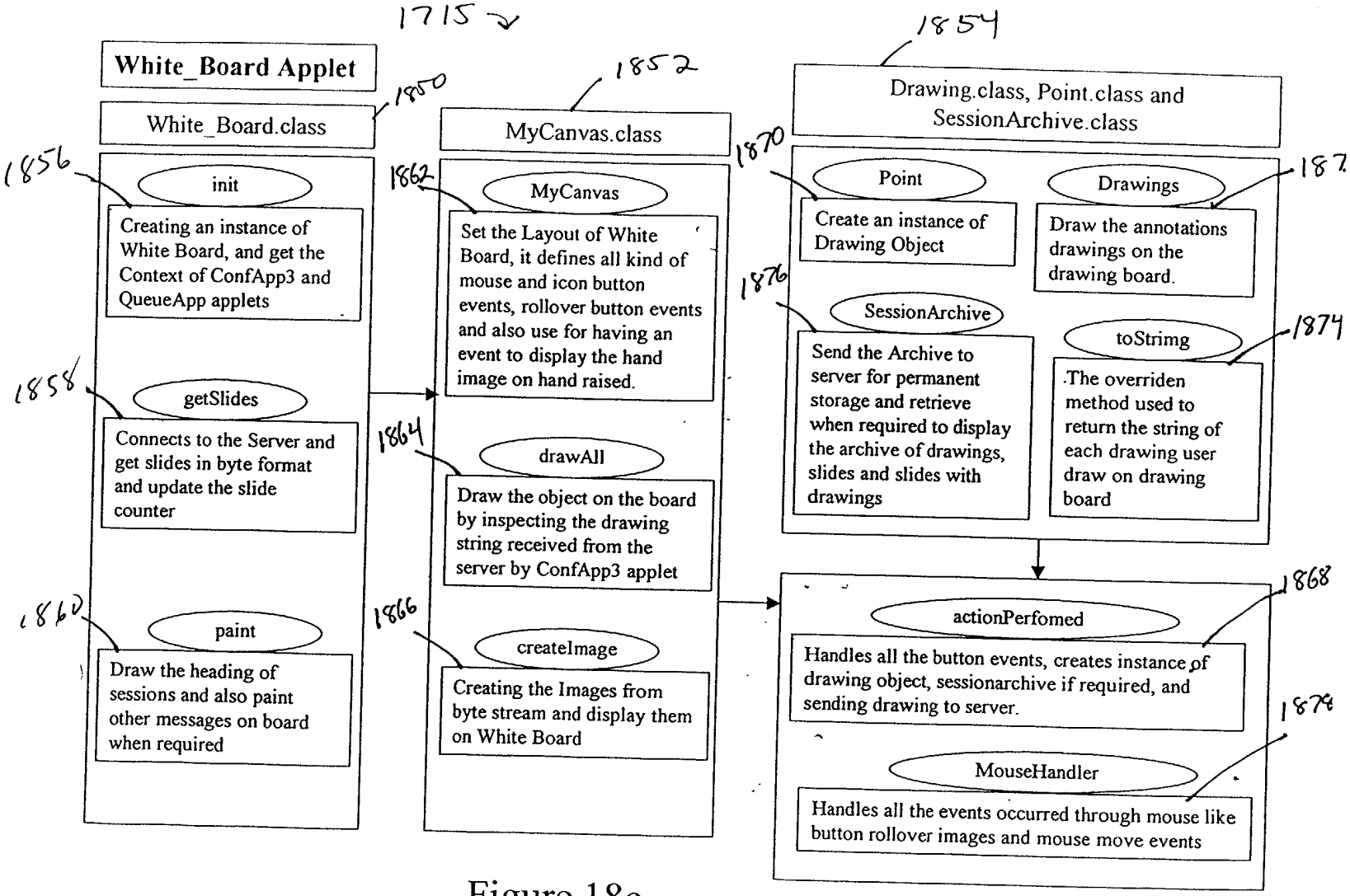
1715
White_Board Applet
1850
White_Board.class
1856
init
Creating an instance of White Board, and get the Context of ConfApp3 and QueueApp applets
1858
getSlides
Connects to the Server and get slides in byte format and update the slide counter
1860
paint
Draw the heading of sessions and also paint other messages on board when required
1852
MyCanvas.class
1862
MyCanvas
Set the Layout of White Board, it defines all kind of mouse and icon button events, rollover button events and also use for having an event to display the hand image on hand raised.
1864
drawAll
Draw the object on the board by inspecting the drawing string received from the server by ConfApp3 applet
1866
createImage
Creating the Images from byte stream and display them on White Board
1854
Drawing.class, Point.class and SessionArchive.class
1870
Point
Create an instance of Drawing Object
Drawings
Draw the annotations drawings on the drawing board.
1876
SessionArchive
Send the Archive to server for permanent storage and retrieve when required to display the archive of drawings, slides and slides with drawings
toStrimg
.The overriden method used to return the string of each drawing user draw on drawing board
1868
actionPerfomed
Handles all the button events, creates instance of drawing object, sessionarchive if required, and sending drawing to server.
MouseHandler
Handles all the events occurred through mouse like button rollover images and mouse move events

Figure 18c

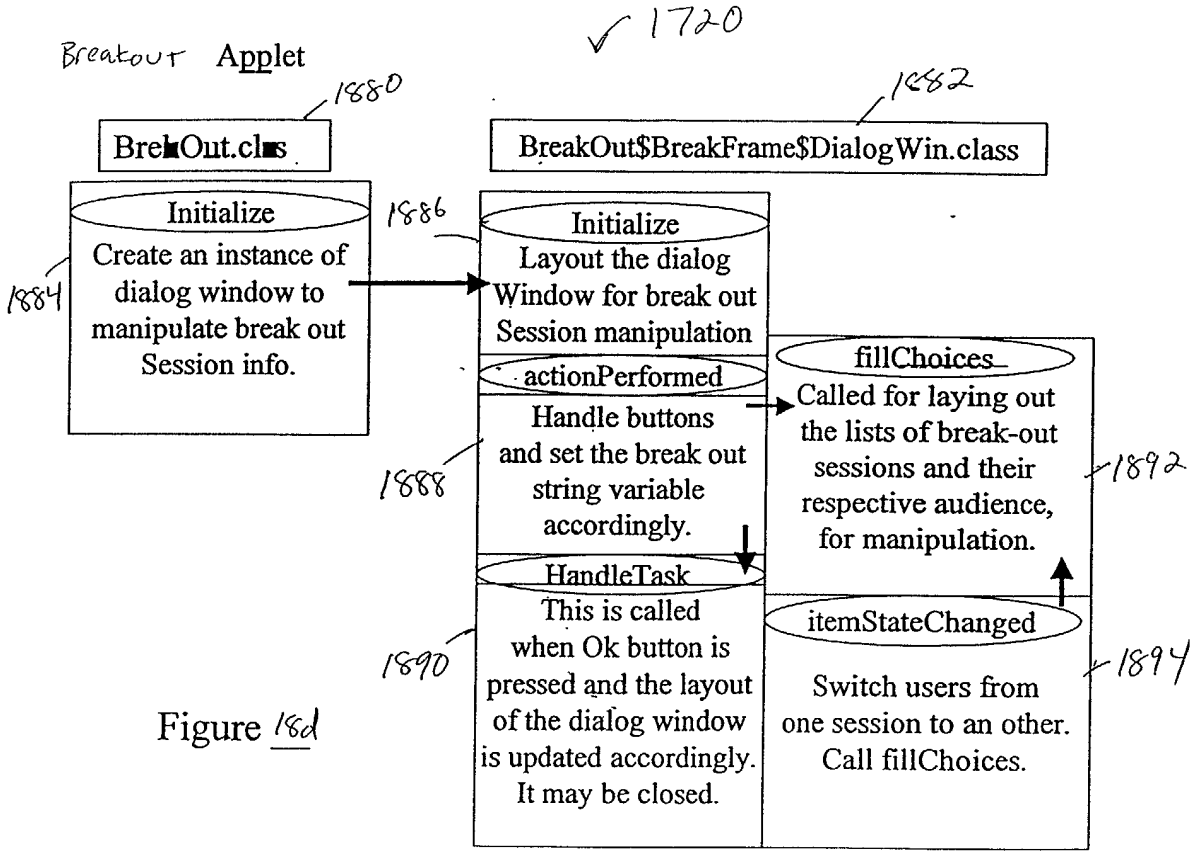
1720
Breakout Applet
1880
BreakOut.class
1882
BreakOut$BreakFrame$DialogWin.class
Initialize
Create an instance of dialog window to manipulate break out Session info.
1884
1886
Initialize
Layout the dialog Window for break out Session manipulation
actionPerformed
Handle buttons and set the break out string variable accordingly.
1888
HandleTask
This is called when Ok button is pressed and the layout of the dialog window is updated accordingly. It may be closed.
1890
fillChoices
Called for laying out the lists of break-out sessions and their respective audience, for manipulation.
1892
itemStateChanged
Switch users from one session to an other. Call fillChoices.
1894

Figure 18d

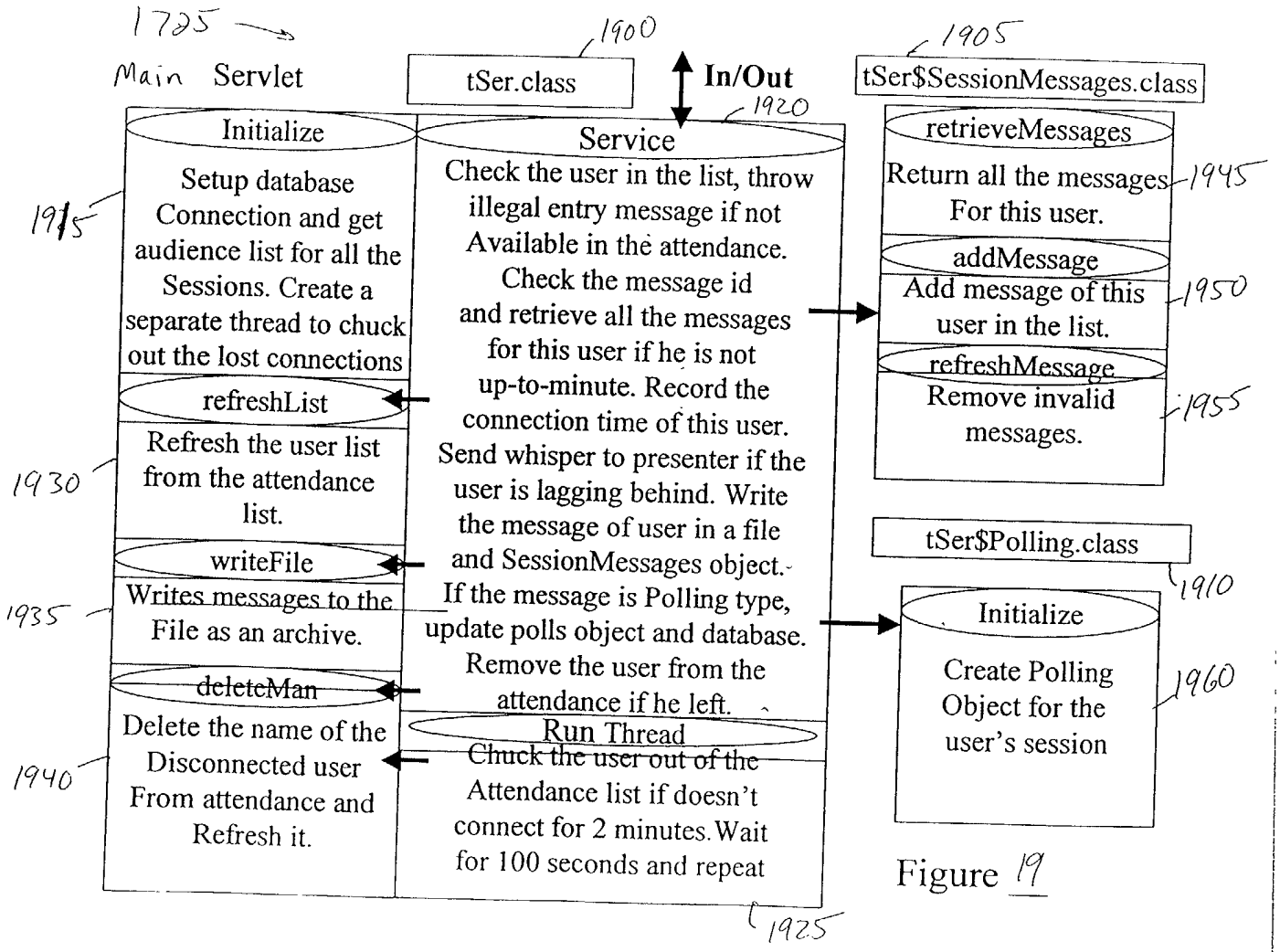
1725
Main Servlet
1900
tSer.class
In/Out
1905
tSer$SessionMessages.class
1920
Initialize
Setup database Connection and get audience list for all the Sessions. Create a separate thread to chuck out the lost connections
1915
Service
Check the user in the list, throw illegal entry message if not Available in the attendance. Check the message id and retrieve all the messages for this user if he is not up-to-minute. Record the connection time of this user. Send whisper to presenter if the user is lagging behind. Write the message of user in a file and SessionMessages object. If the message is Polling type, update polls object and database. Remove the user from the attendance if he left.
retrieveMessages
Return all the messages For this user.
1945
addMessage
Add message of this user in the list.
1950
refreshMessage
Remove invalid messages.
1955
refreshList
Refresh the user list from the attendance list.
1930
writeFile
Writes messages to the File as an archive.
1935
deleteMan
Delete the name of the Disconnected user From attendance and Refresh it.
1940
Run Thread
Chuck the user out of the Attendance list if doesn't connect for 2 minutes. Wait for 100 seconds and repeat
1925
tSer$Polling.class
1910
Initialize
Create Polling Object for the user's session
1960

Figure 19

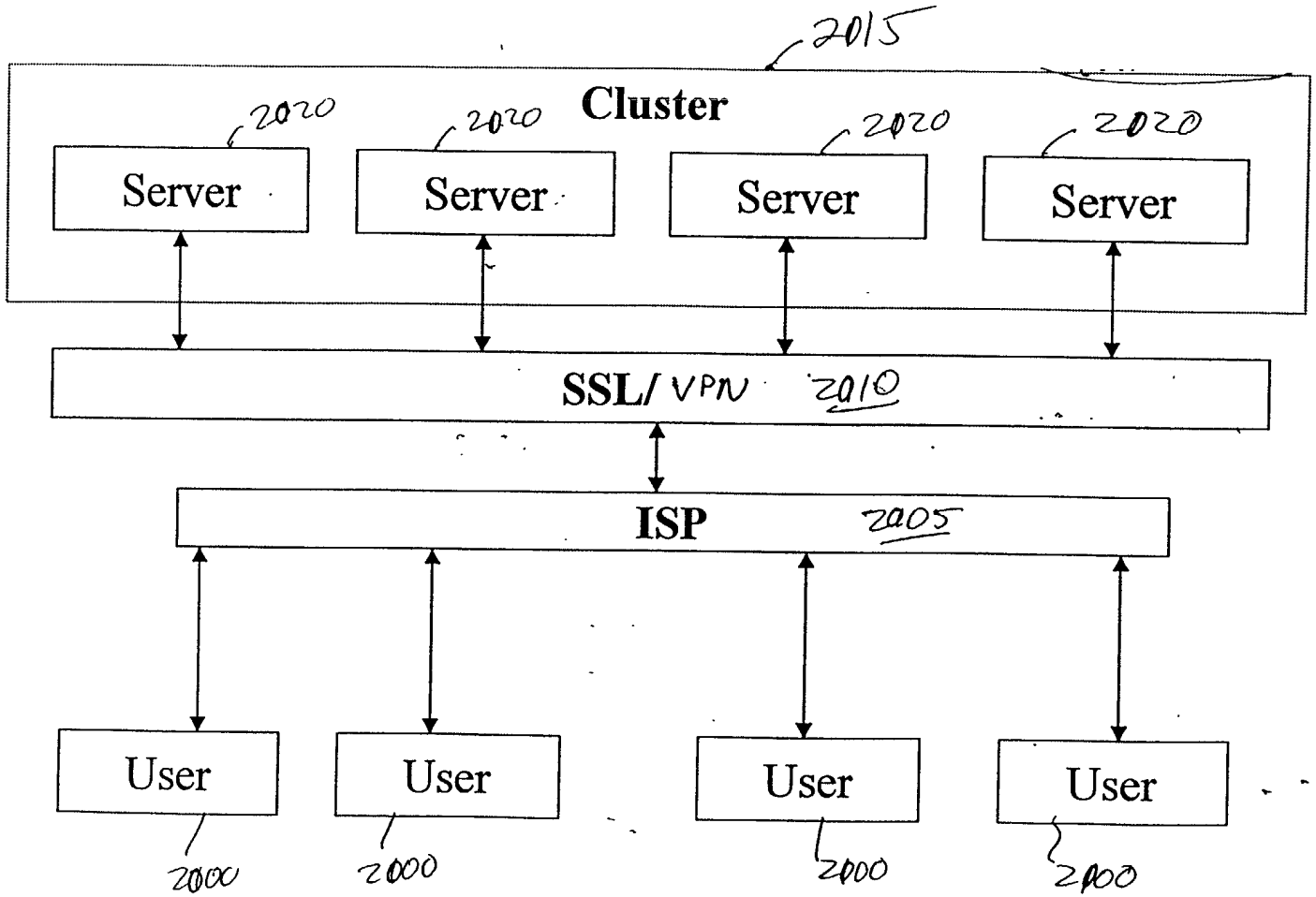
2015
Cluster
2020
Server
2020
Server
2020
Server
2020
Server
SSL/ VPN
2010
ISP
2005
User
2000
User
2000
User
2000
User
2000

Figure 20

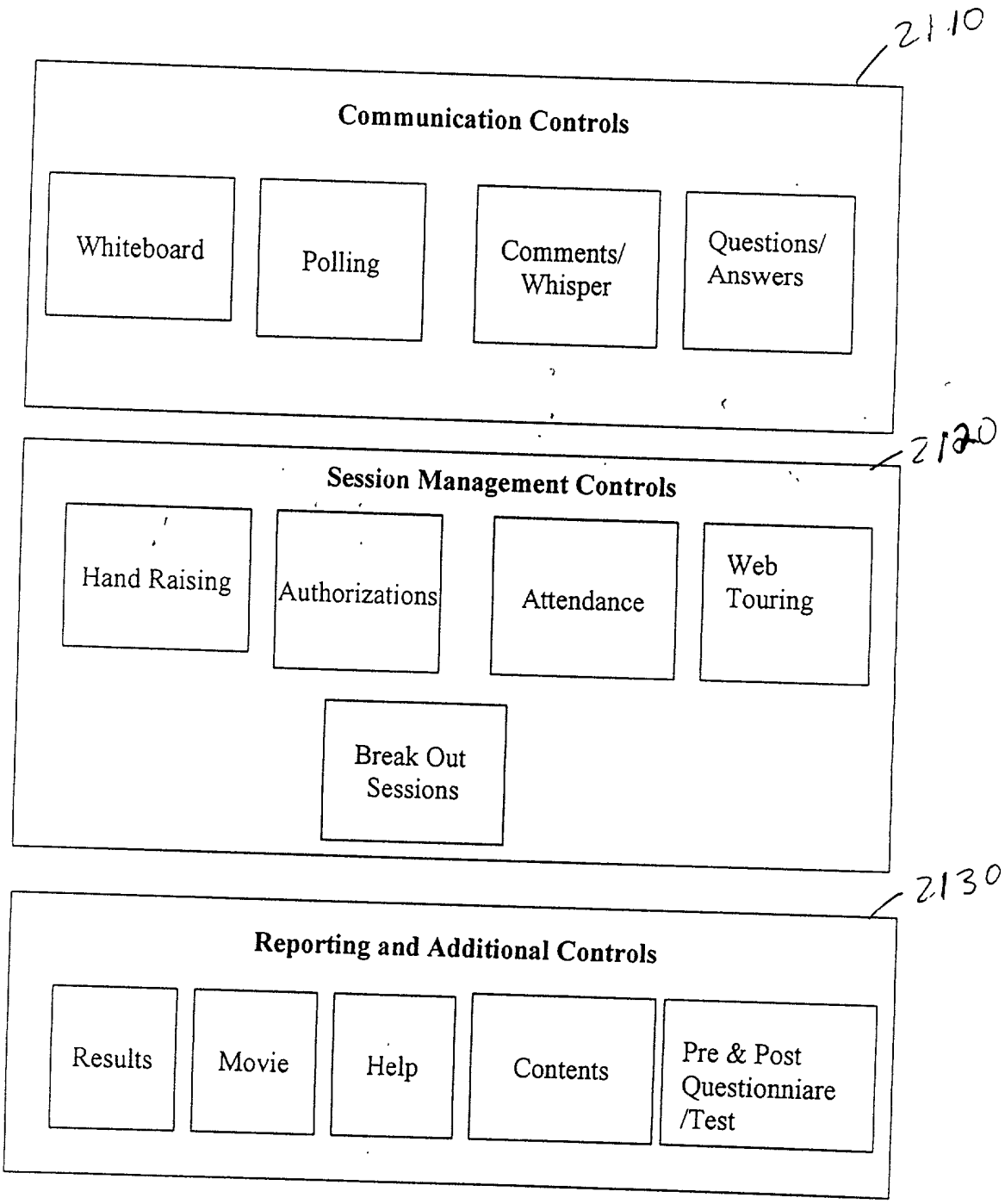
2110
Communication Controls
Whiteboard
Polling
Comments/ Whisper
Questions/ Answers
2120
Session Management Controls
Hand Raising
Authorizations
Attendance
Web Touring
Break Out Sessions
2130
Reporting and Additional Controls
Results
Movie
Help
Contents
Pre & Post Questionniare /Test

Figure 21

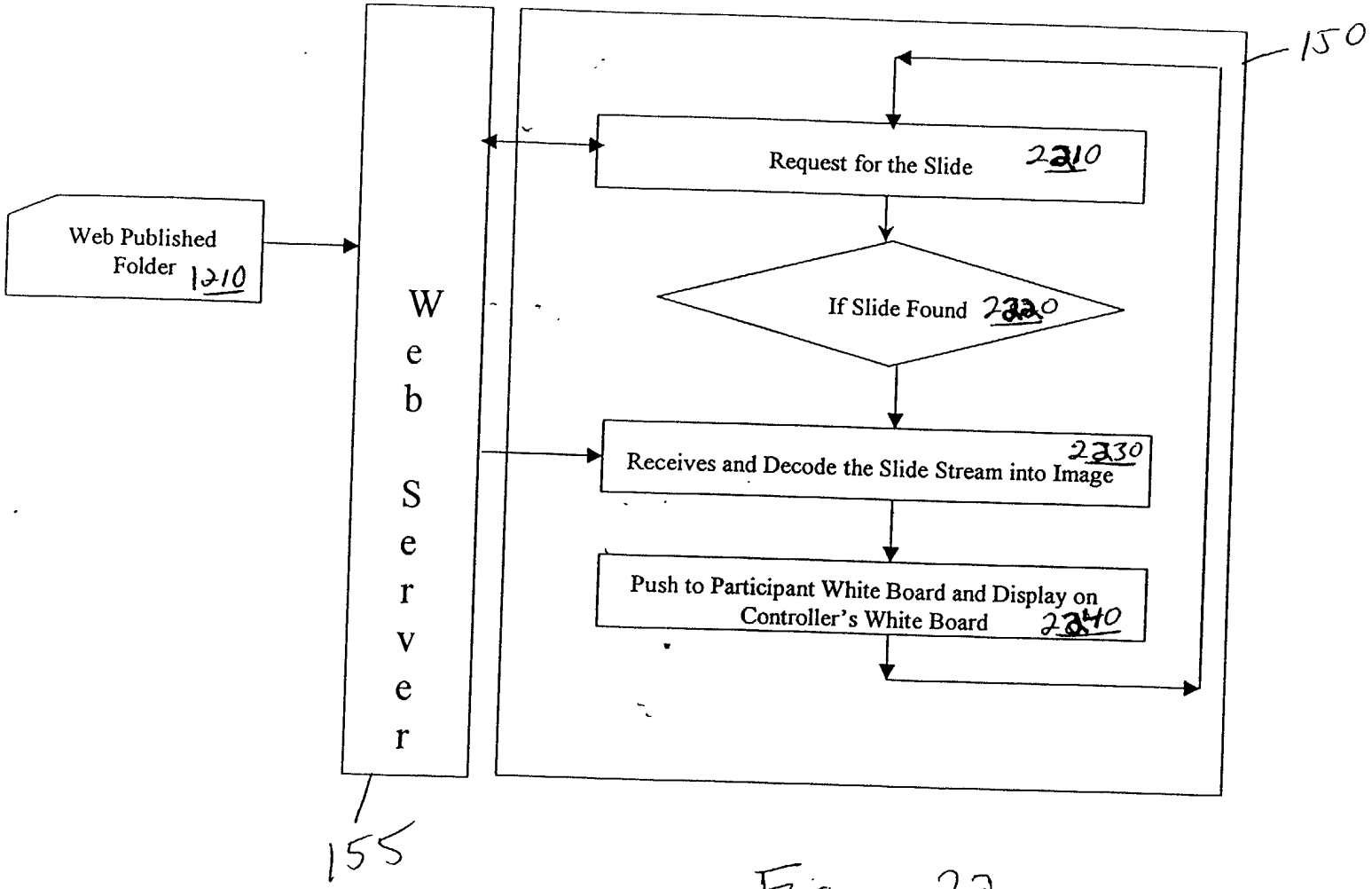
Web Published Folder 1210
Web Server
155
150
Request for the Slide 2210
If Slide Found 2220
Receives and Decode the Slide Stream into Image 2230
Push to Participant White Board and Display on Controller's White Board 2240

Figure 22